

**Report of the
Commissioners
of the
District of
Columbia**

1881

(Washington, DC)

FOURTH ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

DISTRICT OF COLUMBIA,

NOVEMBER 26, 1881.

*District of Columbia, Commissioners
T. Report*

DECEMBER 6, 1881.—Ordered to be printed.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1881.

PUBLIC LIBRARY
WASHINGTON D C

WASHINGTON
PUBLIC LIBRARY

WASH.

REF.

352.0753

D614

1881

81621 g

PUBLIC LIBRARY,
RECEIVED

JUN 28 1905

WASHINGTON, D.C.

ANNUAL REPORT

OF THE

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS
OF THE DISTRICT OF COLUMBIA,
Washington, November 26, 1881.

The PRESIDENT:

The Commissioners have the honor to submit their fourth annual report.

The receipts into the treasury of the District of Columbia from all sources for the year ending June 30, 1881, were as follows:

Balance on hand July 1, 1880, including trust and water funds.....	\$302,923 45
Taxes and revenues for general expenses	1,839,775 19
Appropriations by Congress for general expenses	1,813,701 79
	3,653,476 98
Water rents and taxes.....	140,331 59
Trust funds.....	26,414 17
Refunds to various appropriations.....	4,671 56
	171,417 32
Special appropriation by Congress—filling grounds south of Capitol..	20,000 00
Total.....	4,147,817 75

The expenditures for the year ending June 30, 1881, under the various heads for which estimates are by law required to be made annually, amounted to \$3,547,351.90, viz:

Repairs to concrete pavements.....	\$51,847 56
Replacement of pavements.....	271,288 82
Repairing and macadamizing Seventh street road.....	14,955 50
Surveys of the District with reference to extension of streets and avenues.....	4,988 34
Construction of main and lateral sewers.....	115,391 75
Work on canal to deep water on river front.....	3,436 70
Cleaning tidal sewers.....	2,820 33
Permit work.....	20,405 09
Construction and repair of bridges.....	11,491 12
Washington Aqueduct.....	20,000 00
Charities, reformatories, &c.....	199,712 60
Interest and sinking fund.....	1,317,843 48
Public schools (current expenses).....	409,329 72
Erection of new school-buildings.....	117,981 91
Metropolitan police.....	307,050 28
Fire department.....	106,262 97
Health department.....	26,928 11
Police court.....	12,197 27
Purchase police court building.....	20,000 00
Lighting streets.....	123,458 37
Engineer's department.....	70,063 24
Other expenses, general and miscellaneous, including salaries and contingencies, judicial expenses, judgments, markets, removal of garbage, parking, sweeping and cleaning streets and avenues, cleaning alleys, repairs to pumps, condemnation of alleys, rent of District offices, printing, advertising, &c.....	319,898 74
	3,547,351 90

4 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Water department.....	\$140,738 74	
Trust funds.....	29,071 63	
Filling grounds south of the Capitol.....	19,887 40	
		189,697 77
Balance on hand July 1, including trust and water funds		410,768 08
Total.....		4,147,817 75
Balance on hand July 1, 1881, as above stated, is:		
For general expenses.....		372,133 81
For water fund.....		30,113 92
For trust funds.....		8,520 35
Total balance.....		410,768 08

The above statement shows an increase in receipts from taxes and revenues applicable to general expenses, as compared with the preceding fiscal year, of \$219,645.17, and an increase of receipts from all sources of \$321,026.40. But it does not include \$60,087.31 of drawback certificates received during the year in payment of general taxes under the act of June 27, 1879.

ARREARS.

The report of the collector of taxes shows the amount of arrears on the 1st July, 1881, viz:

On real estate.....	\$996,374 89
On personal property.....	202,803 06

While this exhibit does not give evidence of any decrease in the amount of uncollected taxes as compared with the last fiscal year, it should be stated that the arrears for personal taxes are merely nominal, consisting chiefly of old balances which, from lapse of time and other circumstances, are not now collectible, but which the Commissioners are not authorized to remit or discharge. It is very desirable that some legal method should be provided by which, at stated periods, the books and accounts of the collector should be relieved of such items, and he be discharged from accountability therefor.

More effective legislation is needed, also, for the collection of taxes on real property, by which valid titles may be assured to purchasers at tax sales. The want of such assurance is the chief cause of delinquency in the payment of taxes on real estate.

ASSESSMENTS.

The numerous complaints which have been made of inequalities in the last assessment on real estate, made in 1878, and the great changes in value since that period, warrant the Commissioners in recommending a reassessment of all taxable property. While in some sections of the District this change may not be marked, in other sections the value of land has greatly advanced, and in general a material improvement is observable.

In this connection it is hoped that some more satisfactory method of taxation on personal property than that now in use may be devised. That the personal tax law now in force has not been successful as a revenue measure, experience has clearly demonstrated. Its tendency is to discourage business and honest returns of personal property for taxation; to enhance the local rates of interest on money; to encourage the investment of local or resident capital in non-taxable securities, and to give the control and profits of the local money market to non-resident capitalists. A law which thus discriminates against resident citizens,

and tends to repel the very class whom it should be our policy to attract to the capital, cannot be either wise or just.

Since our special report made to Congress on February 14 last, the collection and settlement of special assessments, as revised under acts June 19, 1878, and June 27, 1879, have steadily and satisfactorily progressed. There had been issued under said acts on October 10, 1881, drawback certificates to the amount of \$684,203.96; of which \$409,057.50 had been received in payment of special assessments, and \$250,222.17 had been received in payment of general taxes.

Leaving unredeemed.....	\$24,924 29
To be issued (estimated).....	39,914 07
Total	64,838 36

The amount of 8 per cent. certificates unredeemed on the 10th of October, 1881, was about \$521,300, leaving, with estimated interest, about \$706,000 to be redeemed; and the amount of uncollected assessments pledged for their redemption was, at same date, \$684,203.96. This last sum does not include interest, alley assessments, street railroad assessments now in litigation, nor assessments against the United States, amounting, as revised, to \$821,265.4.

There were on October 10, outstanding in the hands of third parties about \$260,000 tax-lien certificates, issued by the late board of public works; and the amount of uncollected assessments applicable to their redemption was \$154,536.68, showing a deficiency of about \$105,000. This deficiency is the difference between the original assessment and the amount found due on revision under act of June 19, 1878. And as in most cases the holders of these liens refuse to accept the drawback certificates provided by said act to cover this deficiency, because they do not bear interest, no adequate provision exists for their settlement and adjustment.

The Commissioners, therefore, renew the recommendation contained in their special report of February 14, on this subject, that the unredeemed 8 per cent. certificates, and all unsettled tax-liens now in the hands of third parties, be funded in 3.65 bonds, or some other convenient form, and respectfully refer to the reasons given at large in said report for this recommendation. For more detailed information in relation to this and other subjects connected with the revision of assessments, reference is made to the report, hereto appended, of the officer in charge of said revision.

BONDED DEBT.

The Treasurer of the United States, *ex officio* Commissioner of the District sinking fund, reports the total bonded debt of the District of Columbia, on October 1 last, at \$21,896,450, which shows a reduction, since July 1, 1878, under the operation of the sinking fund, of \$210,100, notwithstanding the additional issue, under act of June 16, 1880, of \$719,800 of 3.65 bonds to fund the floating debt of the District. There has also been, since that date, a reduction in the annual interest charge of \$55,467.77; and the amount of \$70,600 of 3.65 bonds, representing the Washington school fund, has been canceled and destroyed, as directed by the District appropriation act of March 3, 1881.

With a view to the unification of the District debt, as suggested in our last annual report, we now recommend that the Treasurer of the United States be authorized to redeem, as speedily as may be practicable and advantageous, by the issue and sale of 3.65 bonds, all other outstanding bonds of the District. Such a consolidation at the present

market rates of its bonds would not, it is believed, very materially increase the aggregate of the bonded debt of the District, while it would probably result in a considerable reduction of the large annual appropriation now required for the uses of the sinking fund.

This appropriation, made to meet the requirements of a debt which, numbers and resources considered, is unparalleled in any other civilized community, and for which the tax-paying citizens of the District are not responsible, now absorbs more than one-third of the entire revenue of the District, including the Federal contribution of 50 per cent.; and it leaves the Commissioners without adequate means for the proper support of education, for the improvement and extension of streets and avenues, and for other indispensable works with which they are charged. Congress alone can supply the deficiency.

PUBLIC SCHOOLS.

Under authority of the fourth section of the act of March 3, 1881, making appropriations for the government of the District, the parcels of land therein described have been sold by the Chief of Engineers, United States Army, and the proceeds of the sale, amounting to the sum \$7,452, have been deposited in the Treasury for the erection of a high-school building in Washington.

Under authority of the act of March 3, 1879, granting to the District of Columbia for school purposes square No. 109, known as Holmead's Cemetery, and of appropriations made in pursuance of said act, the bodies interred in that cemetery have been removed to Rock Creek and other cemeteries; and this valuable property is now available for the uses to which it has been dedicated, whenever the Commissioners shall be authorized to dispose of the same.

The four new school-houses mentioned in our last annual report as in course of erection have been completed (except two rooms in one of the county buildings) at an aggregate cost, not including sites and furniture, of \$89,552.24. The two located in the second school district contain twelve rooms each, with an aggregate capacity for the accommodation of about 1,500 pupils, and are models of convenience, comfort, and the most approved school architecture. One of them is for colored pupils. The two in the county are plain but convenient and substantial brick buildings, and will accommodate about 400 pupils.

The five additional houses, including the high school, provided for in the appropriation for schools for the current fiscal year, are progressing satisfactorily, and will no doubt all be ready for use at the beginning of the next school year; thus adding, since 1878, eleven first-class buildings, including a spacious and commodious edifice for a boys' high school, to the accommodations of the public schools of the District of Columbia. But more are needed.

While this evidence of progress in the work of public education at the capital is a subject for congratulation, it is to be regretted that thus far it seems to have been regarded by Congress as a matter of merely local concern, and not as a subject, as it really is, of the highest national importance. While many millions have been lavished by the Federal legislature to foster education in the States and Territories, the burden of this high duty and responsibility at the national capital has been thrown upon the scanty and wholly inadequate resources of the people of this District. Is it unreasonable to ask and expect that the capital of the Union shall receive from Congress equal consideration with the States and Territories of the Union; and that its common schools, under

Federal care and nurture, shall be made convenient steps to the vestibule and halls of a great national university? This was the wise and patriotic counsel of Washington, and its value and obligation have already been acknowledged by the establishment of a National Bureau of Education.

The wisdom, culture, and worth of the Union may reasonably be supposed to be more fully represented at its capital than elsewhere; and the people of the Union, therefore, will naturally look to the capital for the highest types of their institutions, and the most perfect methods of national development and progress. It is not possible that the local resources of the District of Columbia can ever meet this popular demand; nor ought it to be expected.

For detailed information in regard to the public schools reference is made to the appended report of the board of school trustees.

WASHINGTON ASYLUM.

The south wing of the work-house, which is a part of the asylum, has been completed, making the total cost of the building \$37,063.52. In a few days the female convicts, now confined in the almshouse, will be removed to this wing, and the evil, heretofore the subject of just complaint, of keeping offenders against the law in contact with the honest poor, will be abated. Many other important improvements, as reported by the commissioner and intendant of the asylum, have been accomplished during the past year; and it is believed that this valuable institution has never been in a condition of equal efficiency and usefulness as at present. Much more, however, remains to be done, involving increased expenditure, to meet the increased demands for accommodation and for needed and indispensable reforms and improvements. We invite careful attention to the intelligent and practical suggestions of the intendant on this subject. He again recommends the purchase of a farm for the use of the asylum, and for the more profitable utilization of its unskilled laborers, in which the Commissioners heartily concur.

INDUSTRIAL HOME SCHOOL.

The new building, for the erection of which provision was made in the District appropriation bill for the current fiscal year, is nearly completed, and will be ready for occupancy before the 1st of January. During the past year, also, other minor improvements, including a conservatory, have been added. The new building will provide accommodation for about thirty additional inmates, and it is intended as an experiment of the cottage, or family, plan of administration adopted in other similar institutions. The economical management of this home for destitute and neglected children and youth of both sexes has enabled its public-spirited and self-sacrificing managers, at very small cost, to dispense lasting and wide-spread benefits to the helpless and unfortunate as well as to the public who indirectly share the beneficent results of their labors.

CHARITIES.

We again recommend the establishment of a board of charities, to whose supervision the management of all charitable, reformatory, and penal institutions, supported in whole or in part by the District of Columbia, as well as all expenditures of public money for the relief of the poor, may be committed. The reasons for this recommendation are

given at large in our last annual report, to which attention is invited. Such boards exist in many of the States and cities, and have, as we are informed, been attended by favorable results.

INSPECTOR OF BUILDINGS.

The inspector of buildings reports that permits have been issued during the year for building improvements of the estimated value of \$1,951,970, which embraces the sum of \$1,857,400 for new brick buildings whose character and value favorably compare with those of like structures erected during any preceding year.

The revenue to the District from fees for these permits was \$3,237.

The inspector includes in his report a statement of the damages to property in the city by the storm of June 27, 1881, which amounted in the aggregate to \$36,940, and accompanies the same with a map on which the course and extent of the storm are indicated. He also gives interesting data in connection with the erection of new school buildings, and the condition and needs of other public structures.

COLLECTOR OF TAXES.

The collector of taxes reports the collections during the year, and submits a detailed statement of his accounts. He again refers to the necessity for additional clerical force in his office to secure a satisfactory discharge of the duties devolving upon it.

ASSESSOR.

The assessor reports the transactions of his office during the year, including statements of receipts from taxes, &c., and the value of taxable real and personal property in the District.

In connection with the subject of personal tax, he states that the returns from intangible property are rapidly diminishing in consequence of investments being made in exempt securities, and asks attention to recommendations on the subject contained in his previous annual reports. He also recommends the employment of additional facilities for increasing the revenue from licenses.

ATTORNEY.

The attorney makes an extended report of the business of his office for the year, and transmits a list of judgments against the District for which provision should be made.

SALE OF PROPERTY.

Under sections 3 and 6 of the act of Congress making appropriation for the expenses of the government of the District of Columbia for the fiscal year ending June 30, 1882, the Commissioners were authorized to sell to the highest bidder at public auction, certain property belonging to the United States and District of Columbia, situated in the cities of Washington and Georgetown, and apply the proceeds of such sale to the purchase of a lot in Georgetown, and the erection of an engine-house thereon, and the erection of two police-station houses in the city of Washington.

The property named in sections referred to was offered for sale as

directed, except the fish wharf in Georgetown. The Commissioners thought it best to hold this property with the hope of commanding a better price. A fair valuation limit was placed on all the property authorized to be sold. Only two pieces of that offered reached a fair market price, viz, lot 3 in square 382, and a certain parcel of land in the square south of square 181, belonging to the United States. The amount received for the property in square 181 has been placed to the credit of the District of Columbia for the purposes named in the act.

The purchaser of the property in square 382 has not yet complied with the terms of sale; alleging as a reason for his non-compliance that there was no authority given in the act of Congress to the Commissioners to convey the said property.

The balance of the property was withdrawn for the reason stated, and will be offered again when a better market can be obtained.

POLICE DEPARTMENT.

The major and superintendent of police reports the operations of the force under his charge, and renews his recommendations for an increase of the same. The extraordinary extent of the territory embraced in the police jurisdiction, amounting to over seventy-two square miles, embracing the cities of Washington and Georgetown and all of the county of Washington, makes the duty to be performed by the very small number of men exceedingly arduous, and does not afford the protection demanded by the citizens. The major's appeal for an increase of men is just and well founded, and is strongly recommended to the attention of Congress.

The thorough discipline and effectiveness of the entire police department are worthy of all commendation.

FIRE DEPARTMENT.

The fire commissioners report upon the condition and needs of the department, and forward the reports of its subordinate officers for the year.

The high character of the fire department for discipline, efficiency, and untiring zeal, which has characterized it heretofore, is fully maintained. The small amount of loss by fire and the low rate of insurance upon property in the District furnish abundant evidence of the department's faithfulness in the discharge of duty. An additional company in the northeastern section of the city, as recommended by the fire commissioners, is much needed, and the favorable action of Congress is respectfully invited.

HEALTH DEPARTMENT.

The report of the health officer is very thorough and complete, giving in minute detail the working of this most important branch of the public service. The statistics and tables afford reliable evidence of the healthfulness of the District, and its freedom from epidemic diseases during the year.

The intelligent manner in which this department has been managed gives very general satisfaction, and a liberal feeling on the part of Congress will make it yet more efficient. The suggestions of the health officer should receive careful and thoughtful attention.

WATER DEPARTMENT.

The report of the water registrar shows that the number of persons using the Potomac water for domestic and miscellaneous purposes on the 30th of June, 1880, was 18,313. Of this number 664 have been connected during the year.

The receipts of the department, independent of the tax for laying water-mains, were \$113,338.80. The expenditures for all purposes, except for interest and sinking fund, were \$66,614.97. The amount due for interest and sinking fund for the ensuing year is \$42,230. Owing to arrears due to the sinking fund, the amount paid during the year on account of interest and sinking fund was \$74,123.77.

The debt of the water department, which was incurred for the purpose of laying the 36-inch main, is now \$389,000. The stock bears interest at 7 per cent., and cannot be called until maturity (October 1, 1901, and July 1, 1903).

For this unfavorable condition of the debt of the water department there appears to be no immediate remedy. Under a late decision of the District court, the fiscal year of the water department begins on the 1st of January. The Commissioners are of the opinion that it should be made by law to conform to the usage of the other departments of the District government.

The total length of water-mains in this District is 175.7 miles. Of this total 17.7 miles, consisting of 30, 12, 6, and 4 inch mains, were laid by the United States. The remainder, including the 36-inch main, have been laid by the corporation of Washington and the District of Columbia.

There are now in use in the District, for the service of the public, 816 hydrants and 464 wells. The water from these wells is constantly analyzed, and, when found impure, the wells are condemned and the pumps removed. While recognizing the necessity for wells in many parts of the city where the water-mains have not yet been extended, and also the fact that for the poor who cannot afford the luxury of ice, the well-water is cooler, and therefore more agreeable than that which flows from the public hydrants, the Commissioners are not disposed to extend the system unnecessarily, on account of the danger to the public health which is liable to result from the contamination of the water by sewage or by surface drainage.

The water registrar earnestly recommends that immediate steps be taken to increase the water supply. In common with the greater number of American cities, Washington is now suffering from a lack of a proper pressure to deliver water on the higher levels, and has reached that point where some decided legislation is necessary. The difficulty can be reached only by increasing the supply or by regulating and reducing the consumption by the use of meters. The sentiment in Congress has heretofore apparently been strongly in favor of increasing the supply, and a report by the District Committee of the Senate was made during the last session of Congress recommending the extension of the conduit and the completion of the dam at the Great Falls.

The conclusion of the Senate committee (see report No. 39, Forty-sixth Congress, second session) is stated by them in the following language:

The Government of the United States undertook this great work of bringing "to the cities of Washington and Georgetown an unfailing and abundant supply of good and wholesome water." It has, at its own expense, constructed the works and laid a large portion of the principal mains which supply the two cities. But to complete

the work, put it in condition for the government and people to reap the full benefit of this great work, additional expenditures must be made. Believing there should be no divided ownership, interest, or control, but that the government should have the complete and absolute ownership and control of the dam, conduit, reservoirs, and principal mains, the committee recommends—

That the expense of completing the dam, extending the conduit, and laying the connecting mains be paid by the United States; and that the authorities of the District be permitted as heretofore to lay such pipe as may be necessary to distribute the water to the people, and to erect such fountains as will supply the necessities of persons not able to have water brought into their houses.

The plan approved by the committee will undoubtedly afford a sufficient supply, and will deliver the greatest quantity of water at the highest practicable level. The Commissioners, however, are of the opinion that this increase of supply should be accompanied by a corresponding increase in reservoir capacity in order that the water may be delivered in a reasonable condition of purity for domestic use. As full information on all subjects connected with this question has been furnished to Congress heretofore, it is not necessary to enter into any detailed discussion of the question.

In this connection, and as illustrating other methods than those heretofore proposed, a study of the Rock Creek Valley has been made by Lieutenant Hoxie, assistant to the Engineer Commissioner, with reference to its availability as a reservoir and general park. While the scheme proposed is in every way practicable, yet it would prove more expensive than that heretofore recommended, by reason of the large expense of land condemnation and the incidental cost of proper roadways, bridges, and collectors. The board is therefore of the opinion that it should not be allowed to interfere with the immediate realization of the plans heretofore proposed, and which have received the approval of the committee of the Senate.

PARKING COMMISSION.

The parking commission report that they have planted during the year 2,134 trees upon the streets in addition to 536 which have been replanted to fill vacancies caused by storms, the rigorous weather of the last winter, accidents, and malicious injuries. They have thus increased the length of the streets which will ultimately be lined with handsome shade trees by about five miles. As the trees become larger more expense is required for their general care, but the results already obtained fully vindicate the methods adopted by the commission, and the policy of continuing the present annual expenditure.

SURVEYOR'S OFFICE.

The surveyor calls attention to the inadequate provision for this office and asks that it be established upon a more reasonable and equitable basis. Under existing laws the compensation of the surveyor is derived entirely from fees. The fact that the office is not a remunerative one would seem to be established by the resignation of the last incumbent. It is to the best interest of the city at large, and of individual property owners, that the compensation of this office should be so fixed as to secure and retain the services of a competent man.

PAVEMENTS.

The condition of the street pavements on the 1st of July last was as follows:

Concrete, including coal tar and asphalt, 44.92 miles; stone block, 16.18

miles; rough stone and cobble, 17.7 miles; macadam, 7.45 miles; gravel, 32.25 miles; wood, 16.7 miles; unimproved, 95 miles.

The Commissioners have continued the policy heretofore adopted by them, and approved by Congress, of replacing the wooden pavements by asphalt or stone, and during the past year have renewed 5.4 miles. On the 1st of July, 1878, there were 34 miles of wooden pavement in the city, all in a more or less decayed and dangerous condition. At the close of the fiscal year this will have been reduced to about ten miles, containing approximately 250,000 square yards; it will therefore require two years more to effect the renovation of these impassable streets and avenues.

The full details of the work performed and to be done will be found in the report of Lieutenant Greene, assistant to the Engineer Commissioner.

The operations of the year have been impeded and delayed by the combination of parties interested in the importation of crude asphalt. The Commissioners are of the opinion that no city can afford to place itself in the power of any corporation or combination of men, by laying upon its streets pavements of which the materials are not to be bought in the open market.

They have therefore taken such steps as are necessary to determine the facts in relation to the importation of asphalts by advertising for 1,500 tons of crude asphalt. If this cannot be purchased freely and in open market, it is their intention to abandon the use of asphaltic pavements.

SIDEWALKS.

As some complaint has been made in regard to the condition of the sidewalks of the city, it is proper to state that, in the absence of specific law, the Commissioners have been at a loss as to what policy to pursue. There are now about 260 miles of sidewalks which, under the municipal ordinance of 1853, would be kept in repair by the owners of adjoining property. The board is advised by the attorney that the ordinance cannot be enforced. The most of the pavement is of brick, and one-tenth in bad condition. To assume the entire expense of the footwalks of the city would involve an expenditure larger than can, at present, be borne by the general fund, especially in view of the large areas of rotten wood and rough stones in the heart of the city, which are yet to be removed.

There are now on file in the Commissioner's office 726 petitions for the improvement of various streets and avenues; covering nearly all of the cities of Washington and Georgetown. It is found on examination that the cost of the improvements so petitioned for, excluding the unsettled portions east of Lincoln Park, south of N street south, and between the white lot and the observatory grounds, will be \$2,582,562.65. It is apparent at once that the revenues of the District are not sufficient to complete the work for many years. All these improvements have, however, been estimated and scheduled for the information of Congress.

STEAM RAILWAYS.

In obedience to the resolution of Congress, the Commissioners have caused the subject of the steam railway lines within the city to be thoroughly examined, and detailed plans and estimates to be prepared of the cost of removing the railways from the surface of the streets; having in view a final settlement of the whole subject, which will at once provide for the exigencies of local and through traffic, and remove for-

ever all cause of complaint arising from the occupation and obstruction of the public highways.

The details of the plan proposed will be found in the report of Lieutenant Hoxie, assistant to the Engineer Commissioner.

The whole matter will be the subject of a special report to Congress.

THE RIVER FRONT.

In previous reports the Commissioners have repeatedly asked the attention of Congress to the condition of the river front of the city.

In the annual report of 1879, their views as to the proper method of conducting the reclamation of the marshes were given at length. It would appear that the time has arrived for action. The details of the proposed work have been carefully studied, and the conclusions arrived at can be presented without delay when called for by Congress.

TELEGRAPH LINES.

In the last annual report the Commissioners called attention to the obstructions caused on the streets by the large number of unsightly telegraph poles; they also submitted data showing the large extent of underground wires now in European cities and the perfect feasibility of that system; and they asked that the rights and duties of the telegraph companies in this respect should be defined by law. No legal action has as yet been taken in the matter, but the Commissioners have taken the responsibility of refusing to grant permits to new companies to erect poles in the more important streets of the city, and have granted these companies the option of laying their wires underground. Under this, the Mutual Union Telegraph Company has laid its wires in pipes underground on New York avenue, from Twelfth to Fifteenth street, and on First street and New Jersey avenue from I street to the Capitol, the total length of the two underground lines being about one mile. The opposition to further extension of telegraph lines on poles which has lately developed in various cities has caused the production of a number of patented systems for carrying wires underground. The Commissioners do not feel obliged to enter into the question of the merits of these various patents as against the system long in use in Europe; but they have no doubt of the perfect feasibility of carrying the wires underground. They therefore renew their recommendation that a law be passed compelling the removal of all telegraph poles in the city within a reasonable time.

SURVEYS.

The surveys of the District with reference to the extension of streets and avenues have been continued during the year. The triangulation has been completed and the topography carried over an area of eight square miles. The area remaining adjacent to the city, and for which maps are now urgently needed, embraces about thirty-five square miles.

The object of the survey is to obtain accurate maps of a scale sufficiently large to make proper plans for the extension of the streets and avenues in the rapidly growing portions of the county, just north of the city. The streets hitherto laid out in that section do not conform to each other or to the general plan of the city, and an alteration in their lines will be demanded as soon as they are thickly built upon. It is very important that this error should be avoided in streets to be laid out hereafter.

SEWERS.

The New York avenue intercepting sewer has been completed, and performs its work satisfactorily. The records of the year sustain the accuracy of the calculations upon which the sewer was designed.

Work on the Boundary intercepting sewer has progressed more slowly than was desired on account of difficulties encountered in the lower section from subterranean springs and caving banks. That difficulty has been overcome, and the work is now advancing satisfactorily. It is proposed to begin the work for the relief of the northwestern section of the city by constructing an additional sewer at the head of Slash Run district, and an estimate for this purpose has been presented.

Very respectfully,

J. DENT,
THOS. P. MORGAN,
W. J. TWINING, *Major of Engineers,*
Commissioners District of Columbia.

A.—REPORT OF THE SECRETARY.

OFFICE OF THE COMMISSIONERS
DISTRICT OF COLUMBIA,
Washington, September 13, 1881.

GENTLEMEN: I have the honor to submit copies of orders made by the board during the fiscal year ending June 30, 1881.

No progress has been made during that period in the old record division, because of the continued necessity for employing the clerks provided for that division in other departments of the District government. I renew my recommendation of last year respecting the advantage of placing this work under the supervision of an officer who shall give his exclusive attention to it.

The clerical and messenger force of this office have discharged their duties commendably. Mr. James Campbell probably has the most arduous desk in the District service, and has acquitted himself with his usual intelligence and industry. The services of Mr. J. T. W. Ourand, who has been on duty in this office temporarily, have been rendered in a highly satisfactory manner, and are indispensable, especially during the sessions of Congress, when a large additional amount of labor is connected with the Commissioners' correspondence with that body and its committees. I desire further to recommend that Mr. Frank H. Loving, messenger clerk in this office, be promoted to a clerkship in this office or to a like position in some other department of the District government. He has been so directly under your observation that no testimony from me is necessary to inform you of his efficiency and reliability.

Very respectfully,

WILLIAM TINDALL,
Secretary.

THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS
DISTRICT OF COLUMBIA,
Washington, July 1, 1880.

Ordered, That all employes of the District are forbidden to furnish information to parties holding claims against the District of Columbia

which are covered by the provisions of an act of Congress approved June 16, 1880, entitled "An act to provide for the settlement of all outstanding claims against the District of Columbia, and conferring jurisdiction on the Court of Claims to hear the same, and for other purposes;" and all employés are forbidden to give any assistance, in any form or manner, or at any time, either in or out of office hours, to such claimants.

That all applications by claimants, under the provisions of the above-mentioned act, for information from the records of the District shall be referred to the Attorney-General of the United States, for his opinion as to whether the information asked can be furnished without injury to the interests of the District.

That the drawback certificates received by the collector of taxes in payment of special assessments shall be canceled and turned over by him to the chief of the special assessment division, taking his receipt therefor.

That drawback certificates received in payment of special assessments upon which lien certificates are held by third parties shall be stamped "Received in payment of special assessments upon which lien certificates are not held by the sinking fund."

That the collector of taxes shall report daily to the chief of the special assessment division a detailed statement of all collections made on account of special assessments.

That from and after this date the auditor and comptroller shall cause the key of the vault-room containing the records of the auditor's office of the late board of public works and the records of the late board of audit to be deposited in his safe each day when the room is vacated.

That from and after this date *no person*, except the members of the fire board and the heads of bureaus, shall be admitted into the Columbia Building after office hours, without permission, in writing, from the Commissioners, or from one of them.

JULY 2, 1880.

Ordered, That as the repair of the Seventh street road cannot be estimated, nor specifications drawn, the Engineer Commissioner is instructed to do the work by day's work, as repairs.

JULY 3, 1880.

Ordered, That the offices of the District of Columbia be closed on Monday, July 5, 1880.

JULY 6, 1880.

Ordered, That a wagon-stand is hereby established on the east side of the carriageway of High street, immediately below Jones's alley, in the city of Georgetown, until otherwise ordered; and all parties using this stand must first agree to remove, every twenty-four hours, the manure and dirt arising from their occupancy of the same.

JULY 6, 1880.

Ordered, That in the revision of special assessments of streets or portions thereof, where the grading or other specific work is incomplete,

the charge for the work not completed shall be deducted from the assessment and charged to the general fund, to be taken up in any future assessment that may be made upon completion of the work, or held as an offset to any claims for damages that may be made on behalf of the property affected thereby.

In carrying into effect this order, all grades shall be considered complete which have been brought within two feet of actual grade from street to street.

JULY 10, 1880.

Ordered, That William Morgan be relieved as a member of the license committee, and that Dr. E. M. Chapin take his place as a member of said committee.

JULY 12, 1880.

Ordered, That the chief of the special assessment division is hereby authorized to receive and receipt for all books, papers, records, property and securities belonging to that division which have heretofore been under the charge of Mr. George W. Beall.

Receipts will be given in triplicate, one copy to be deposited with the secretary to the Commissioners.

JULY 13, 1880.

Ordered, That in the revision of assessments in cases of corner lots assessed for sewers under a corporation or other assessment not subject to revision, credit may be given on a subsequent assessment for sewers on the remaining side, not to exceed 75 feet.

That the chief of the special assessment division shall be required to give bond in the sum of five thousand dollars.

JULY 20, 1880.

Ordered, That the condemnation of land for an alley in square numbered 141 in the city of Washington, made on the first of May, A. D. 1880, by the jury summoned for that purpose by the United States marshal of the District of Columbia, is hereby approved. (See order of September 20, 1880, revoking this order.)

JULY 20, 1880.

Ordered, That the collector of taxes shall transmit to the chief of the special assessment division all collections made on account of special assessments upon which lien certificates have been issued and are not held by the sinking fund, taking his receipt therefor.

JULY 23, 1880.

Ordered, That from and after this date the Commissioners will only pay fees for attendance as witnesses in the police court to the persons to whom the certificates are issued, unless it can be satisfactorily shown that the witness is physically unable to present the certificate in person.

JULY 24, 1880.

Ordered, That all employés of the District of Columbia are enjoined to attend strictly to their legitimate duties during the hours allotted for work, and not to absent themselves from their places without permission of the officers in charge of their respective divisions. *Visiting, loafing, or gossiping* will not be tolerated, and any employé violating this order will be liable to dismissal.

AUGUST 7, 1880.

Ordered, That the funds returned by the First National Bank of the city of New York to the Commissioners, under date of 9 and 13 July, 1880, which funds had previously been received by George W. Beall on tax lien certificates numbered 1452, 3172, 227, and 24, supposed to be held by said bank, be delivered to William O. Roome, chief of special assessment division, for settlement with said Beall, and the receipt of said Roome taken therefor.

AUGUST 11, 1880.

Ordered, That section 23 (page 23, line 8) of the building regulations be amended as follows: strike out the words "six and one-half feet," and insert *eight feet on parked streets when the parking is less than twenty-four feet wide, and ten feet when the parking is over twenty-four feet wide.*

AUGUST 26, 1880.

Ordered, That the chief of the special assessment division shall transmit to the Commissioners, to be forwarded to the commissioner of the sinking fund, all certificates issued by the late board of audit which are now in his possession, received by his office in payment of special assessments, pledged to the redemption of 8 per cent. certificates of indebtedness.

SEPTEMBER 7, 1880.

Ordered, That the Engineer Commissioner of the District of Columbia is authorized to advertise the intention of the Commissioners to open and straighten the Fort Baker road, from the intersection of Naylor and Good Hope roads, to and beyond the old site of Fort Baker, in the county.

SEPTEMBER 9, 1880.

Ordered, That the chief of the special assessment division shall have access to such records of the late board of public works and board of audit as he may require, such records not to be removed by him from the vault in which they are now deposited.

SEPTEMBER 9, 1880.

Ordered, That in accordance with a provision of the "Act making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June thirtieth, eighteen hundred and eighty-one and for other purposes," approved June 4, 1880, Commissioner William J. Twining is selected by the Board of Commissioners to be a trustee of the Columbia Hospital for Women and Lying-in-Asylum.

SEPTEMBER 9, 1880.

Ordered, That in accordance with a provision of the "Act making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June thirtieth, eighteen hundred and eighty-one, and for other purposes," approved June 4, 1880, the president of this board is selected to visit and investigate the management of the private charitable institutions, accepting money appropriated for their aid by said act: and Commissioner Thomas P. Morgan is selected to be a trustee of the Reform School.

SEPTEMBER 8, 1880.

Ordered, That drawback certificates which may hereafter be received on account of lien certificates *not* held by the sinking fund will be stamped "Received for holder of lien certificate not held by the sinking fund."

When such drawback certificates are surrendered to the holder of the lien certificate for which they were received, they will be stamped "Delivered, payable to the order of _____, holder of lien certificate," and indorsed by the chief of the special assessment division.

Certificates so stamped and indorsed are receivable as provided for by the acts of June 19, 1878, and June 27, 1879.

So much of the orders of July 1, 1880, and September 4, 1880,* as conflict with this order are hereby revoked.

SEPTEMBER 15, 1880.

Ordered, That D. E. McComb, leveler in the engineer department, is directed to proceed to Pittsburgh, Pa., to make a thorough examination and tests of the iron manufactured by the Pittsburgh Bridge Company for the reconstruction and strengthening of the M street bridge over Rock Creek.

SEPTEMBER 20, 1880.

Ordered, That at the request of the property owners, original petitions for the condemnation of an alley in square 141, which alley has not been opened and upon which no assessment has been paid, the order of July 20, 1880, approving the said condemnation is hereby revoked, and all proceedings heretofore taken in regard thereto are hereby annulled.

SEPTEMBER 21, 1880.

Ordered, That Maj. W. J. Twining, Engineer Commissioner, is hereby detailed to muster the National Rifles as national guard of the District of Columbia.

SEPTEMBER 27, 1880.

Whereas the improvement of Vermont avenue between P and R streets, northwest, was not included in the estimates sent to Congress, on which the current appropriations for work on various streets were based, it is—

Ordered, That so much of the award to J. S. Baldwin on the 8th instant as refers to Vermont avenue between P and R streets, northwest, is hereby revoked.

* See L. S. 13072 and 13073 C. O.

That the contract of J. S. Baldwin for laying asphalt pavement on Sixth street, northwest, between P and Boundary, be extended to include the laying of asphalt pavement on Sixth street, northwest, from P street to New York avenue, at the same price per square yard as named in the original contract.

OCTOBER 2, 1880.

Ordered, That the Engineer Commissioner is hereby authorized to advertise for proposals for the removal of bodies from the Holmead cemetery.

OCTOBER 4, 1880.

Ordered, That the offices of the District government be closed after 10 o'clock a. m., on the 5th instant.

That hereafter the streets of that part of the District of Columbia known as Georgetown will be known on the official records of the District of Columbia by the following names, to wit:

Street hitherto called—

North street, as	Twenty-sixth street.
Monroe street, as	Twenty-seventh street.
Mill street, as	Twenty-seventh street.
Rock street, as	Rock street.
Montgomery street, as	Twenty-eighth street.
Greene street, as	Twenty-ninth street.
Washington street, as	Thirtieth street.
Jefferson street, as	Jefferson street.
Congress street, as	Thirty-first street.
Valley street, as	Valley street.
High street, as	Thirty-second street.
Potomac street, as	Potomac street.
Market street, as	Thirty-third street.
Frederick street, as	Thirty-fourth street.
Fayette street, as	Thirty-fifth street.
Lingan street, as	Thirty-sixth street.
Warren street, as	Thirty-seventh street.
Water street, as	Water street.
South street, as	South street.
Grace street, as	Grace street.
Needwood street, as	L street.
Aqueduct street, as	Pennsylvania avenue
Bridge street, as	M street.
Olive street, as	Olive street.
Prospect street, as	Prospect street.
Gay street, as	N street.
First street, as	N street.
Dunbarton street, as	Dunbarton street.
Beall street, as	O street.
Second street, as	O street.
West street, as	P street.
Third street, as	P street.
Stoddard street, as	Q street.
Fourth street, as	Q street.
Fifth street, as	R street.
Sixth street, as	S street.
Seventh street, as	T street.
Eighth street, as	U street.
Road street, as	U street.

The official numbers of the houses on the streets above mentioned will be as follows, to wit: Houses on the north and east sides of streets will bear odd numbers; houses on the south and west sides of streets will bear even numbers. Each number will be considered equivalent to a front of *twenty* feet. Of houses fronting on streets running north

and south, the houses on the northern corners will be numbered as follows, to wit:

At corner of Water street	1000 and 1001
L street	1100 and 1101
M street	1200 and 1201
N street	1300 and 1301
O street	1400 and 1401
P street	1500 and 1501
Q street	1600 and 1601
R street	1700 and 1701
S street	1800 and 1801
T street	1900 and 1901
U street	2000 and 2001

From these corner houses the numbers will proceed in regular order by addition of two for each front of *twenty* feet on each side of the street until the next street of those just mentioned is arrived at.

Of houses fronting on streets running east and west, the houses on the western corners will be numbered as follows, to wit:

At corner of Twenty-sixth street	2600 and 2601
Twent-seventh street	2700 and 2701
Twenty-eighth street	2800 and 2801
Twenty-ninth street	2900 and 2901
Thirtieth street	3000 and 3001
Thirty-first street	3100 and 3101
Thirty-second street	3200 and 3201
Thirty-third street	3300 and 3301
Thirty-fourth street	3400 and 3401
Thirty-fifth street	3500 and 3501
Thirty-sixth street	3600 and 3601
Thirty-seventh street	3700 and 3701

From these corner houses the numbers will proceed in regular order by addition of two for each front of twenty feet on each side of the street until the next street of those just mentioned is arrived at.

The surveyor of the District of Columbia is hereby directed to make a survey of that part of the District of Columbia above referred to, and to fix the number of each house in accordance with the requirements of this order. While the survey is in progress he will notify the inhabitant of each house of its official number, and will furnish to each house a painted sign of inexpensive pattern bearing the numbers. Upon completing the survey he will make two identical plats of the same, showing the names of the streets and the location and number of each house; one of these plats will be furnished to the Commissioners of the District of Columbia, and the other will be kept in the records of the surveyor's office, together with a copy of this order.

The expenses of the survey and of purchasing the painted signs will be paid from the appropriation for general contingent expenses of the District of Columbia.

OCTOBER 19, 1880.

Ordered, That D. E. McComb, leveler in the engineer department, is directed to proceed to Pittsburgh, Pa., to make a thorough examination and tests of the iron manufactured by the Pittsburgh Bridge Company for the reconstruction and strengthening of the M street bridge over Rock Creek.

OCTOBER 23, 1880.

Ordered, That pursuant to the provisions of the act of Congress providing a permanent form of government for the District of Columbia,

approved June 11, 1878, and "An act making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June 30, 1881, and for other purposes," approved June 4, 1880, a tax be, and the same is hereby, levied of *one dollar and fifty cents* (\$1.50) on every one hundred dollars of real estate not exempted by law, except upon real property held exclusively for agricultural purposes without the limits of the cities of Washington and Georgetown, and so designated by the assessor in his annual return, the rate on which shall be *one dollar* (\$1) on every one hundred dollars; and upon all personal property in the District of Columbia, not taxable elsewhere, *one dollar and fifty cents* (\$1.50) on every one hundred dollars, according to the cash valuation thereof. The first half of the said tax shall be due and payable on the 1st day of November, 1880, and the second half on the 1st day of May, 1881.

OCTOBER 27, 1880.

Ordered, That Thomas C. Cox, water registrar, is hereby, at his own request, relieved from duty as a member of the board for the examination of applications for liquor licenses, and that Mr. Charles S. Jones is appointed in his stead.

Dr. E. M. Chapin is hereby designated chairman of said board.

OCTOBER 29, 1880.

Ordered, That in those cases in which drawback certificates have been received for the holder of a lien certificate in payment of the assessment for which the lien was issued and canceled by error, the collector of taxes is directed to receive the said lien certificate in payment of such assessments and general taxes as are by law payable in the drawback certificates so erroneously canceled, and to note upon the lien certificate so received the numbers and the amounts of the drawbacks received for them and erroneously canceled, and deliver the same to the treasurer and assessor of the District of Columbia to be canceled.

That the south side of B street, between Seventh and Ninth streets, northwest, is hereby assigned for occupation, on market days, to the wagons of butchers and dealers in the Washington market, and the country market-wagons may stand, free of charge, against the curb on the north front of the Washington market building, between the wings of said building.

OCTOBER 30, 1880.

Ordered, That all collections made on account of assessments for condemnation of alleys shall be delivered to the treasurer and assessor of the District of Columbia, who will make special deposits of the same in the Treasury of the United States, as in the cases heretofore specially ordered.

NOVEMBER 13, 1880.

Ordered, That that part of the order of December 31, 1879, regulating the watch at this building which requires the superintendent of property to make details from the employés under his direction for watch duty in this building on Sundays and holidays is hereby revoked on account of the increase of the regular day watch by the appointment of the remaining watchman provided for by appropriation.

NOVEMBER 19, 1880.

Ordered, That the second paragraph of the order passed October 29, 1880, be amended so as to read as follows:

That the south side of B street between Seventh and Ninth streets northwest, is hereby assigned for occupation on market days to the wagons of butchers and dealers holding stalls in the Washington Market; and the country market wagons may stand, free of charge, against the north side of the plank pavement recently laid in the passage way on the north front of the Washington Market building.

That a copy of the above shall be delivered to the major and superintendent of police for immediate enforcement.

NOVEMBER 20, 1880.

Ordered, That in the revision of the assessments for surface work where the total expenditure was less than \$500, the chief of the special assessment division is authorized to charge such expenditure to the "general fund."

NOVEMBER 24, 1880.

Ordered, That the offices of the government of the District of Columbia be closed on the 25th instant, pursuant to the proclamation of the President of the United States designating that day as an occasion for public thanksgiving.

DECEMBER 2, 1880.

Whereas section 222 of the Revised Statutes of the United States relating to the District of Columbia provides as follows: "No open space, public reservation, or other public ground, nor any portion of the public streets or avenues shall be occupied by any private person, or for any private purpose whatever," it is hereby—

Ordered, That all stands for business or other private purposes occupying any street, avenue, alley, road, or thoroughfare, or public ground in the District of Columbia, or any sidewalk or portion thereof, shall be removed therefrom on or before the 1st of January, 1881; and all permission and consent for such occupancy by stands are hereby revoked, and none will be given hereafter by any department of the District government.

(An ordinance respecting nuisances, of the city of Georgetown, D. C., approved April 30, 1808, makes substantially the same prohibition against occupancy of sidewalks for private purposes.)

OFFICE OF THE COMMISSIONERS
OF THE DISTRICT OF COLUMBIA,
Washington, December 10, 1880.

AN ACT to confer upon the Commissioners of the District of Columbia certain powers, duties, and limitations contained in chapter eight (Water Service) of the Revised Statutes of the United States relating to the District of Columbia, and for other purposes.

Be it enacted by the Senate and the House of Representatives of the United States of America in Congress assembled, That the Commissioners of the District of Columbia shall have all the powers and be subject to all the duties and limitations provided in chapter eight of the Revised Statutes of the United States relating to the District of Columbia, excepting such powers and duties as belong to the Chief of Engineers: *Provided*, That water-main taxes and water rents shall be uniform in said District: *And provided*

further, That the rate of interest specified in section two hundred and two of said Revised Statutes shall be increased to ten per centum per annum from and after the passage of this act.

* * * * *

Approved June 10, 1879.

Ordered, That under the authority invested in the Commissioners of the District of Columbia by the above-recited act, the following schedule of annual water rates is adopted, to take effect on the 1st of January, 1881, and will continue in force until otherwise ordered:

DOMESTIC RATES.

The rates for domestic purposes will be charged according to stories and front feet. The addition of twenty per cent. made for the current year is hereby reduced to ten per cent. on the rates previously charged, viz:

On all tenements two stories high, with front width of sixteen feet or less, \$3 per annum. Each additional story, \$1, and each additional front foot, 25 cents.

SPECIAL BUSINESS AND MISCELLANEOUS RATES.

In every case where business-houses or tenements are occupied also for domestic purposes, the regular charge for domestic purposes according to the above rates will be made, and in addition thereto the special business rate, as hereinafter specified.

Special and miscellaneous business will be charged at the following rates, viz:

Bar-rooms and restaurants, from fifteen to fifty dollars per annum.

Billiard-rooms, from five to twenty dollars per annum.

Eating-houses, from eight to twenty dollars per annum.

Barber-shops, from six to twelve dollars each per annum.

Public baths, four dollars per annum for each and every tub.

Bakeries, from three to fifteen dollars per annum.

Boarding and tenement houses will be charged at a rate in accordance with the stories and front feet, and the ten per cent. addition of same, and in addition thereto fifty cents per annum for each and every room over and above the number of three rooms in said boarding-house or tenement.

Building-purposes.—For each one thousand bricks laid, three cents per thousand. Special rates will be charged for public works.

Brick-yards.—Ten to fifty dollars each per annum, according to production. Machinery and horse-power extra, at regular rates.

Boarding-schools and school-houses.—From five to ten dollars per annum.

Cow-stables.—For each and every cow, twenty-five cents per annum.

Depots.—Locomotive engines taking water once per day, seventy-five dollars; twice per day, one hundred and fifty dollars. The building extra, according to number of offices, bars, and refreshment rooms; water-closets and urinals, three dollars each.

Dye-houses.—Five to twenty dollars per annum. Machinery taking water, extra.

Fountains will only be used three hours per day, and will be charged as follows: One-sixteenth of an inch jet, five dollars per annum; for a one-eighth of an inch jet, ten dollars per annum; for a one-quarter of an inch jet, twenty dollars per annum; for a one-half inch jet, fifty dollars

per annum; for a three-quarters of an inch jet, seventy-five dollars per annum; and for an inch jet, one hundred and fifty dollars per annum.

In case a meter is used there will be charged one cent for each and every hundred gallons. No fountain will be permitted on any premises where the water is not taken for other purposes, and to an extent sufficient for those purposes; and if the water from the jet or fountain be permitted to flow into premises adjacent to or in the neighborhood, where it may be used for other purposes, the supply will be stopped, and the amount of payment forfeited.

Florists will be charged at the rate of from five to twenty dollars per annum, according to the size of the premises.

Horses, private.—For each and every horse, one dollar and fifty cents; said sum to include water for washing carriages.

Horses, hackney, and draught.—For each and every horse, seventy-five cents per annum.

Hotels.—One dollar for each bed or furnished room; bar, billiard-rooms, barber-shops, offices, stores, and machinery taking water, extra.

Laundries.—Five to fifteen dollars according to general business. Machinery using water, according to rates for stationary engines and boilers.

Livery stables.—For each and every horse, seventy-five cents per annum.

Mills.—Five dollars. Machinery extra, according to the rates for stationary engines.

Market-houses.—Fifty cents per stall.

Offices.—Three dollars per annum.

Printing-houses.—From five to ten dollars per annum, according to the number of presses. Machinery in same using water will be charged in addition thereto, according to the rate for stationary engines.

Stationary engines.—Three dollars per horse-power. Boilers without engines, one dollar and seventy-five cents per horse-power.

Stores, shops, confectionaries, warehouses, and mills.—Five to ten dollars per annum.

Steamboats, according to tonnage; 50 tons and under, twenty-five dollars; over 50 tons, fifty dollars.

Street-washers, where parties use same, and water is not taken in the house, will be charged at rates from three to ten dollars per annum, according to nozzle or tap, and may be used not longer than thirty minutes immediately before sundown.

Street-sprinklers will be charged at the rate of one cent for each and every thousand gallons of water used.

Slaughter houses.—From five to twenty dollars per annum, according to general business. Machinery taking water, extra, according to rates for stationary engines.

Swimming-baths, manufactories, paper mills, or any other business requiring a large supply of water, will be required to use a meter, and will be charged at the rate of ten cents for each and every thousand gallons of water used.

DECEMBER 20, 1880.

Ordered. That the order of the 2d instant, enforcing the law against the occupation of public ground for private purposes applies to auctioneers as well as to all others, and they shall not expose goods nor other articles for sale upon any public ground or place covered by the terms of said order. (See opinion of attorney, District of Columbia, December 18, 1880.)

DECEMBER 24, 1880.

Ordered, That the offices of the District government be closed on the 25th instant and 1st proximo, to-day at 12 o'clock m., and on the 27th, 28th, 29th, 30th, and 31st instants, at 3 o'clock p. m.

JANUARY 3, 1881.

Ordered, That in cases where tender was made of amounts due upon special assessments and refused before the issue of lien certificates, all interest shall be remitted, and certificates subsequently issued will be recalled or reduced to the amount of the net assessment. If the lien certificate was issued previously, then interest will be charged to date of tender.

That the offices of the District government in the Columbia building be closed to the public each day at 3 o'clock to enable the employés to make daily settlements of business.

FEBRUARY 2, 1881.

Ordered, That the surveyor of the District be paid 33½ cents per number for his services in carrying into effect the provisions of the order of October 4, 1880, for the renumeration of the buildings in that part of the District of Columbia known as Georgetown.

FEBRUARY 9, 1881.

Ordered, That the auditor and comptroller is directed to report to the Commissioners, at the end of each week the receipts and expenditures during the week, showing balance in the Treasury to the credit of the District of Columbia.

FEBRUARY 11, 1881.

Ordered, Whereas, on the 23d day of August, 1878, John McCauley entered into a contract with the District of Columbia, No. 105, for the removal of garbage and night soil, &c., as in said contract is provided, and among the general conditions thereof is a paragraph No. 2, reserving to the Commissioners the right and power to suspend said McCauley from the further execution of the said contract, and to substitute other parties in his place for the better execution of the same; and

Whereas, pursuant to the powers reserved in said second paragraph, the Commissioners did suspend said McCauley, and afterwards, to wit, on the 19th day of March, 1879, said Commissioners entered into a supplemental contract with H. Clay Jones, who was thereby subrogated to the rights and duties of said McCauley under said contract, and who duly executed his bond with sureties for the due performance of his agreement; and

Whereas, afterward, said Jones was by the order of the said Commissioners, also suspended for cause, under said second paragraph, and thereupon his said sureties employed and appointed one Francis Carter as their agent to execute said contract, and who now is an agent of said sureties who stand in the place of said contractor under said contract, and

Whereas said work in his hands is unnecessarily delayed and improperly performed, so that the public good requires a further exercise

of the powers of said second paragraph. Therefore it is on this 11th day of February, 1881.

Ordered. That William O. Denison, Ruth C. Denison, Patrick Dana-her, and John H. Clark, sureties of said Jones, and Francis Carter, their agent, be suspended from the further performance of all work and duty in the execution of said contract, to take effect from February 11, 1881, and that a copy of this order be served upon each of the parties, sureties in said bond for said H. Clay Jones, and said Francis Carter, their agent.

That the inspector of buildings, upon application by owners or occupants of property on the line of the proposed procession on the 4th proximo, will issue permits for the erection of stands for observation in front of such premises where there are bay-windows or other permanent projections; but such stands shall not extend out beyond such projections, nor shall any such stands be permitted where there are no such projections. Stands erected under this order must be removed on or before the 5th proximo.

That the parties occupying the garbage wharf and premises on James Creek Canal will vacate them at once, and transfer to the health officer all property in their possession, or under their control, belonging to the District of Columbia.

FEBRUARY 21, 1881.

Ordered. That the offices of the District government be closed to-morrow, the anniversary of Washington's birthday.

FEBRUARY 25, 1881.

Ordered. That the offices of the District government be closed at 2 o'clock p. m. next Monday, out of respect to the memory of the late Henry D. Cooke, ex-governor of the District, and to enable the employes to attend the funeral; and that the Commissioners attend the funeral in a body, as a further mark of respect; and that a copy of this order be sent the family of the deceased.

That John M. McAvoy be, and is hereby, suspended as an authorized messenger.

MARCH 5, 1881.

The Commissioners having been informed of the death of Hon. Richard Wallace, ex-mayor of the late corporation of Washington, it is

Ordered. That on Monday, 7th March, the day of the funeral of the deceased, this office be closed at 12 o'clock m., to enable the employes of the District government to be present at the obsequies, and that, as a further mark of respect, the Commissioners will, in a body, attend the funeral. The secretary is directed to transmit to the family of the deceased a copy of this order.

MARCH 8, 1881.

Ordered. That the office of the chief of the special assessment division will hereafter be closed to the public at 2 o'clock p. m. daily.

That the chief of the special assessment division be directed to proceed at once to prepare for issue tax-due certificates on all lots the assessments of which have been revised and which remain unpaid.

That all drawdown certificates now in custody of the chief of the special assessment division and held for account of the sinking fund be trans-

ferred to the custody of the auditor and comptroller; and that all drawback certificates hereafter received by him for account of said fund shall, after proper examination and verification, be also transferred to the auditor and comptroller.

MARCH 14, 1881.

Ordered, That no stalls will be rented in the Northern Market after the 1st of July, 1881.

MARCH 17, 1881.

Ordered, That the property which, by sections 3 and 6 of the act of Congress of March 3, 1881, making appropriations for the expenses of the District of Columbia for the fiscal year ending June 30, 1882, the Commissioners are authorized to sell, shall be offered for sale on the following terms, viz, one half each and balance in six and twelve months, with deed of trust to secure deferred payments; and that said property be at once advertised by the secretary for sale to the highest bidder, reserving the right to the Commissioners to reject any and all bids.

MARCH 21, 1881.

Ordered, That the request of the Commissioners, of February, 16, 1881, to William Birney, trustee, to sell all the stands in the market building known as the Western Market, southeast corner of K street and twenty-first street, northwest, in the city of Washington, on which security was taken by trust deed for the payment of certain *bonus* notes, which notes are now held by the District of Columbia, and on which default of payment has taken place, be and the same is hereby reaffirmed; and the said trustee is hereby directed to proceed at once to the sale of all stands on which default has been made, particularly of stands Nos. 19, 24, 25, 28, 29, 31, 34, 37, 38, 48, 49, 71, 82, and 91, and the terms of sale advertised by said trustee are hereby approved.

MARCH 23, 1881.

Ordered, That the auditor and comptroller of the District of Columbia proceed at once to cancel all uncanceled sewer certificates now in his custody, as mentioned in the report of Daniel Donovan, dated 21st March, 1881.

APRIL 12, 1881.

Ordered, That the Mutual Union Telegraph Company be allowed to erect a line of telegraph poles and wires down Sherman avenue to Tenth street, west, and Boundary; down said Tenth street to W street, north; on said W street to Twelfth street, west; down said Twelfth street to O street, north, and stop at the last-named point until further orders.

APRIL 16, 1881.

Ordered, That the order of the 12th instant be extended so as to permit the Mutual Union Telegraph Company to extend their line from Twelfth and O streets, northwest, down Twelfth street to New York avenue, and on reaching that avenue to carry an underground line through the intercepting sewer to a point near their main office between Fourteenth and Fifteenth streets, northwest.

APRIL 19, 1881.

Ordered, That hereafter all plats of subdivisions must have the official approval of the Commissioners before being recorded by the surveyor of the District of Columbia.

APRIL 20, 1881.

Ordered, That the order of the 19th instant is hereby amended by adding that no new subdivision of property already subdivided will be admitted to record until all taxes due thereon shall have been paid.

APRIL 21, 1881.

Ordered, That the Commissioners of the District of Columbia be present to represent the District before the board of public works of the State of Maryland, at its meeting in Cumberland in that State on the 22d instant, as a measure tending to affect the prosperity of important interests in this District will then be brought before that board for consideration.

APRIL 23, 1881.

Ordered, That the offices of the District government be closed at 12 o'clock, m., on Monday, the 25th instant, the occasion of the unveiling of the statue of the late Admiral Farragut, and that all district officers and employes actively connected with organizations that will participate in the ceremonies attending the same may be absent the entire day.

APRIL 26, 1881.

Ordered, That the Engineer Commissioner cause to be prepared the papers and plats for the condemnation of land necessary for the widening of Fourteenth street beyond Boundary to a width of 80 feet, subject to the verbal agreement heretofore entered into by parties representing the late Stone estate that the rate of compensation shall not exceed 10 cents per square foot.

APRIL 29, 1881.

Whereas the attorney for the District of Columbia reports that a verdict and judgment have been given in the supreme court of the District in favor of the First National Bank of the City of New York for the amount actually paid, with interest at six per cent. from the day of such payment, for certain erroneously issued certificates of indebtedness of the late board of public works, which were surrendered to said attorney in open court and by him sent to the Commissioners, as follows:

Lot.	Square.	Amount.	Number.
Part of 18.....			
Part of N.....	529	\$156 38	842
Part of 1.....	570	201 65	905
Sub. 1.....	293	213 15	964
Part of sub. 21.....	185	213 83	1274
Part of 6.....	199	190 40	1303
Part of 1.....	86	140 48	2254
Part of 8.....	454	153 74	2999
Sub. 1.....	348	159 70	32
K.....	216	788 86	93
Sub. 27.....	436	232 30	527
Sub. 28.....	457	89 43	814
Part of 5.....	457	89 43	815
Part of 21.....	404	170 72	1104
	378	285 96	1300

It is ordered, That the said certificates of indebtedness be forwarded to the auditor and comptroller of the District of Columbia, who will cancel them.

APRIL 30, 1881.

Ordered, That H. C. Jones be directed to vacate the premises on James Creek Canal, known as the garbage depot, immediately.

MAY 7, 1881.

Ordered, That during the present temporary absence of the chief of the special assessment division, Roger Williams, now employed in that division, is directed to perform the duty of certifying bills to the collector for payment.

MAY 10, 1881.

Ordered, That dumping places, not exceeding eight in number, to be hereafter designated by the Commissioners, be established, where all street, yard, and alley sweepings and cleanings, and earth from excavations not otherwise provided for, shall be deposited. All persons placing or causing such materials to be placed elsewhere will be subject to the penalty of the law.

MAY 11, 1881.

Ordered, That the clause prescribing fire limits, contained in the second section of the order of August 23, 1878, establishing building regulations for the District of Columbia, is hereby repealed and the following substituted therefor:

Fire limits.—The city of Washington, except that portion east of Eleventh street, east, and south of I street, south; and that portion of the city of Georgetown bounded on the north by Road and Eighth streets, on the west by the boundary line of the city of Georgetown, on the south by the Potomac River, and on the east by the city of Washington, within which it shall not be lawful to erect, construct, enlarge, alter, repair, or remove any wooden building except as hereinafter prescribed.

MAY 12, 1881.

Ordered, That the following are hereby designated as dumping places under the order of the 10th instant:

N street, between Twenty-seventh street and Rock Creek.

C street, northwest, between Seventeenth and Eighteenth streets.

Canal street, southwest, between First and South Capitol streets.

L street, northeast, between North Capitol and First streets.

Sixth street, southeast, between L and M streets.

Also, if the owner permits, on the square bounded by Q, P, Seventeenth and Eighteenth streets, northwest.

MAY 17, 1881.

Ordered, That so much of the order of July 1, 1880, as requires the transmittal of drawback certificates to the special assessment division is hereby revoked, and the certificates received by the collector of taxes from and after the 30th ultimo will be sent by that officer direct to the auditor and comptroller District of Columbia.

That no permit nor license be issued to any person or persons to hold entertainments of any kind at what are known as "Fisher's Hall" and "Potomac Hall" at corner of N and Thirty-second streets, northwest, without the same is recommended by the lieutenant of police for that precinct and approved by one of the Commissioners of the District of Columbia.

MAY 25, 1881.

Ordered. That during the present temporary absence of the chief of the special assessment division, Roger Williams, now employed in that division, is directed to perform the duty of certifying bills to the collector for payment.

MAY 26, 1881,

Ordered. That the market master of the Northern Market be directed to notify all dealers in that market that no stalls nor stands will be rented therein after June 30, 1881, and that they will have to vacate those held by them on that date. All rentals in said market for June next must be collected by the 5th of that month.

That in cases where property has been sold for non-payment of any special assessment, the chief of the special assessment division is authorized and directed to enter upon the records of his office upon such account "satisfied by sale."

MAY 28, 1881.

Ordered. That the offices of the District of Columbia be closed on "Decoration day," Monday, the 30th instant.

MAY 31, 1881.

Ordered. That the Mutual Union Telegraph Company be permitted to erect a line of telegraph poles and wires from their present line, commencing at corner of Twelfth and T streets, northwest, along said T street to Boundary; along Boundary to North Capitol street; along North Capitol street to New York avenue, and thence by way of the North Capitol street sewer to the Capitol.

JUNE 10, 1881.

Ordered. That Messrs. Ros. A. Fish of the treasurer and assessor's office, Charles V. Gordon of the water registrar's office, Theron W. Parsons, clerk of the committee on liquor licences, and Henry L. West, clerk in office of the major and superintendent of Metropolitan Police, are hereby detailed to schedule the proposals for general supplies received to-day, and will meet at 9 o'clock to-morrow morning for that duty in the office of the chief engineer of the fire department, which they will occupy during the performance of the work.

JUNE 13, 1881.

Ordered. The order of May 17, 1881, made for the temporary relief of the special assessment division, being no longer needed, is hereby revoked, and the collector of taxes is directed to transmit, as formerly, all drawback certificates received by him in payment of special assessments to the chief of the special assessment division, taking his receipt therefor.

JUNE 16, 1881.

Ordered, That the major of police detail from the police force an officer well versed in shipping and the usual regulations touching the mooring, anchoring, fastening, &c., of vessels, to act as harbor-master for Washington, and direct him to report to the Commissioners for instructions.

JUNE 17, 1881.

Ordered, That officer John R. Sutton, of the Metropolitan Police, having been detailed to act as harbor-master of Washington, in addition to his present duties as inspector of marine products, all persons interested are hereby notified to respect his orders pertaining to his duties in the premises.

JUNE 25, 1881.

Ordered, That the following changes be made in the offices named, to take effect on and after the 30th instant:

V. R. Morgan is removed from the office of clerk and F. E. Shepperd appointed to the vacancy thus made.

Frank Reeside and J. E. Krouse, clerks in the office of the treasurer and assessor, are removed on account of insufficiency of appropriation.

J. Smolinski and H. H. Voss, watchmen, are removed, and the duties of the offices thus vacated will be discharged by policemen, who will be under the direction of the major of police.

J. W. Clark, clerk in the special assessment division, will be placed on the temporary roll of the collector's office, with compensation at the rate of one hundred dollars per month.

The firm of Bailey & Fletcher not having complied with the requirements of the order of the board of May 24, 1881, relating to the bids received May 5, and there being no time for further delay, the contracts for paving the following streets not heretofore awarded, are awarded as follows, viz:

TO A. L. BARBER.

	Yards.	Rate.	Estimated cost.
Sixteenth street, from H street to Scott square	12, 200	\$2 09	\$25, 498 00
M street, from Fourteenth street to Sixteenth street northwest.....	4, 500	2 08	9, 360 00
Eighteenth street, from Pennsylvania avenue to E street northwest	4, 800	2 05	9, 840 00
Nineteenth street, from N street to P-street circle	3, 200	2 06	6, 592 00

TO H. L. CRANFORD.

Second street west, from Indiana avenue to I street.....	10, 100	2 08½	21, 058 50
Third street east, from Pennsylvania avenue to East Capitol street	3, 200	2 09	6, 688 00

They being the lowest responsible bidders upon the respective streets.

The Engineer Commissioner is hereby directed to advertise for proposals for fifteen hundred tons of crude asphalt, to be delivered at the property yards at such time as may in his opinion be most advantageous to the District.

JUNE 28, 1881.

Ordered, That hereafter no leave of absence will be granted for a longer time than ten days, except in case of sickness or other urgent circumstances.

JUNE 29, 1881.

Ordered, That from and after the first proximo the major of police will take charge of the Columbia Buildings, and make detail for duty as watchmen at said buildings (in lieu of those whose time of service will expire on the 30th instant) of officers of the police force who, by reason of disability arising from age or exposure, are unsuited for the active duties and exposure to the weather usually required of policemen. These men will be subject to all the rules and regulations of the police force, and will be regularly visited by the inspectors and sergeants as is done in the case of all other beats and stations. The custody of the building with the contents of all the rooms will be in their charge, and the regulations of the Commissioners as to the admission of persons into the buildings after hours strictly enforced.

B.—REPORT OF THE TREASURER OF THE UNITED STATES ON THE DISTRICT SINKING FUND.

Statement of the funded indebtedness of the District of Columbia and late corporations of Washington and Georgetown July 1, 1881.

Description of bonds.	Act authorizing issue.	Date of maturity.	Interest.	
			Rate.	Coin or currency.
Of the District of Columbia:				
Permanent improvement ..	Assembly, July 10 and December 16, 1871.	July 1, 1891	6 per cent...	Coin.
Permanent improvement ..	Assembly, June 23 and 25, 1873.	July 1, 1891	7 per cent...	Currency.
Market stock	Assembly, August 23, 1871, and June 19, 1872.	July 26, 1892	do	Do.
Water stock	Assembly, July 20, 1871.....	Oct. 1, 1901	do	Do.
Water stock	Assembly, June 26, 1873	July 1, 1903	do	Do.
Fifty-year funding.....	Congress, June 20, 1874, February 20 and March 3, 1875.	Aug. 1, 1924	3 $\frac{85}{100}$ per cent	Do.
Twenty-year funding	Congress, June 10, 1879	July 1, 1899	5 per cent ..	Do.
Of the late corporation of Washington:				
Twenty-year funding	Congress, May 8, 1872.....	July 1, 1892	6 per cent...	Coin.
Thirty-year funding	Assembly, District of Columbia, June 20, 1872.	Nov. 1, 1902	do	Do.
Three-year (Emery)	Congress, July 7, 1870.....	July 30, 1873	7 $\frac{3}{8}$ per cent.	Currency.

Description of bonds.	Interest.		Amount registered.	Amount coupon.	Total.
	Payable.	When due.			
Of the District of Columbia:					
Permanent improvement..	Semi-annually.	Jan. 1 and July 1..	.....	\$3, 950, 200	\$3, 950, 200
Permanent improvement..	do	do .....	.....	670, 000	670, 000
Market stock.....	do	do	\$100, 000	50, 000	150, 000
Water stock.....	do	do .....	.....	374, 000	374, 000
Water stock.....	do	do .....	.....	15, 000	15, 000
Fifty-year funding	do	Feb. 1 and Aug. 1 ..	9, 645, 000	4, 422, 950	14, 067, 950
Twenty-year funding	do	Jan. 1 and July 1..	116, 000	973, 300	1, 089, 300
Of the late corporation of Washington:					
Twenty-year funding.....	Semi-annually.	Jan. 1 and July 1..	.....	1, 145, 250	1, 145, 250
Thirty-year funding.....	do	May 1 and Nov. 1 ..	.....	660, 000	660, 000
Three-year (Emery).....	do	Interest ceased .....	.....	100	100
			9, 861, 000	12, 260, 800	22, 121, 800

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 33

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

Corporation of Washington ten-year bonds	\$150 00
Corporation of Washington 5 per cent. general stock.....	2,010 01
Corporation of Washington 6 per cent. general stock.....	4,280 17
Corporation of Washington 6 per cent. canal stock	100 00
Corporation of Georgetown 6 per cent. general stock.....	200 00
Corporation of Georgetown 8 per cent. general stock.....	20,000 00
	26,740 18

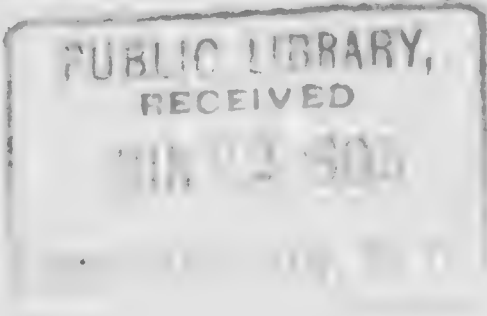
Amount of funded debt retired by operation of the sinking fund since July 1, 1878	672,900 00
Reduction in annual interest charge by operation of the sinking fund since July 1, 1878	42,970 77

Statement of the funded indebtedness of the District of Columbia and late corporation of Washington October 1, 1881.

Description of bonds.	Act authorizing issue.	Date of maturity.	Interest.	
			Rate.	Coin or currency.
Of the District of Columbia:				
Permanent improvement ..	Assembly, July 10 and December 16, 1871.	July 1, 1891	6 per cent...	Coin.
Permanent improvement ..	Assembly, June 23 and 25, 1873.	July 1, 1891	7 per cent...	Currency.
Market stock	Assembly, August 23, 1871, and June 19, 1872.	July 26, 1892	...do	Do.
Water stock	Assembly, June 20, 1871	Oct. 1, 1901	...do	Do.
Water stock	Assembly, June 26, 1873	July 1, 1903	...do	Do.
Fifty-year funding.....	Congress, June 20, 1874, February 20 and March 3, 1875.	Aug. 1, 1924	3 ⁶⁵ / ₁₀₀ per cent	Do.
Twenty-year funding.....	Congress, June 10, 1879	July 1, 1899	5 per cent...	Do.
Of the late corporation of Washington:				
Twenty-year funding	Congress, May 8, 1872.....	July 1, 1892	6 per cent...	Coin.
Thirty-year funding	Assembly, District of Columbia, June 20, 1872.	Nov. 1, 1902	...do	Do.
Three-year (Emery).....	Congress, July 7, 1870.	July 30, 1873	7 ³ / ₁₆ per cent .	Currency.

Description of bonds.	Interest.		Amount registered.	Amount coupon.	Total.
	Payable.	When due.			
Of the District of Columbia:					
Permanent improvement..	Semi-annually.	Jan. 1 and July 1..	.....	\$3,911,300	\$3,911,300
Permanent improvement..	do	do .....	.....	665,500	665,500
Market stock	do	do	\$100,000	50,000	150,000
Water stock	do	do .....	.....	374,000	374,000
Water stock	do	do .....	.....	15,000	15,000
Fifty-year funding	do	Feb. 1 and Aug. 1 ..	9,799,000	4,216,700	*14,015,700
Twenty-year funding	do	Jan. 1 and July 1..	114,000	875,300	989,300
Of the late corporation of Washington:					
Twenty-year funding	Semi-annually.	Jan. 1 and July 1..	.....	1,115,550	1,115,550
Thirty-year funding.....	do	May 1 and Nov. 1 ..	.....	660,000	660,000
Three-year (Emery).....	do	Interest ceased ...	.....	100	100
			10,013,000	11,883,450	21,896,450

* Issue of District three-sixty-fives limited by law to \$15,000,000. Issued to date, \$14,463,050.



34 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

Corporation of Washington ten-year bonds	\$150 00
Corporation of Washington 5 per cent. general stock	2,010 01
Corporation of Washington 6 per cent. general stock	3,480 17
Corporation of Washington 6 per cent. canal stock	100 00
	5,740 18

Amount of funded debt retired since July 1, 1878	930 000 00
Reduction in annual interest charge since July 1, 1878	55,467 77

JAS. GILFILLAN,
*Treasurer United States, ex-officio Commissioner of the
Sinking Fund of the District of Columbia.*

OFFICE OF THE TREASURER OF THE UNITED STATES,
Washington, October 1, 1881.

APPENDIX B 1.

ESTIMATES.

TREASURY OF THE UNITED STATES,
Washington, September 16, 1881.

GENTLEMEN: I have the honor to transmit herewith estimate of appropriations required for the service of the fiscal year ending June 30, 1883, by the commissioner of the sinking fund of the District of Columbia, on account of interest and sinking fund on the funded debt, exclusive of water bonds, and for the sinking fund office.

The estimate does not vary from the amounts appropriated by Congress for the current fiscal year except in one item, for salary of Treasurer of the United States, commissioner of the sinking fund, acting as treasurer of the sinking fund, for which an appropriation is estimated of one thousand dollars in accordance with the provision in the act of March 3, 1875 (18 Stat., 376), as follows:

And the salary of the commissioner of the sinking fund acting as treasurer thereof shall be one thousand dollars per annum.

Since the Treasurer of the United States became commissioner of the sinking fund of the District of Columbia (20 Stat., 104, section 7), and by virtue thereof treasurer of the sinking fund, no estimate has been submitted, and no appropriation has been made for the salary.

As you are aware, since the powers and duties of the sinking fund of the District of Columbia have been conferred upon the Treasurer of the United States by the act of June 11, 1878, the labors of this office have been largely increased by the addition of those duties which did not strictly belong to this office. They have, however, been cheerfully performed in addition to the unusual duties devolved upon him by his official relations to the United States. Besides, however, performing the ordinary duties which devolved upon the late sinking-fund commissioners, the Treasurer for three years has been charged with the disbursements of the annual appropriation, now amounting to \$1,213,947.97, involving not only the payment of the interest on the bonded debt but the investment of the amount due the sinking-fund; the calling in and retirement of over a million dollars of the pleasure bonds of the Dis-

trict; the redemption of loans falling due from time to time; the redemption of over \$600,000 of certificates of the late board of audit, and signing and issuing of a like amount of 3.65 bonds, together with signing and issuing the bonds in satisfaction of the judgments of the Court of Claims, rendered in accordance with the act of June 16, 1880, and the collection of the assessments of the authorities of the District of Columbia for special street improvements, and the application of the proceeds to the payment of the 8 per cent. certificates of indebtedness of the District of Columbia.

It is not to be supposed that Congress intended that the Treasurer should assume these additional duties and responsibilities without the compensation which is provided by law therefor; which view is strengthened by the fact that, in appointing the Comptroller of the Currency to act as commissioner of the Freedman's Saving and Trust Company in this city, Congress, by section 5 of the act of February 21, 1881 (21 Stat., 327), authorized him to receive an annual salary of \$1,000, in addition to his present salary, for his services as commissioner aforesaid.

JAS. GILFILLAN,
Treasurer United States.

Hon. COMMISSIONERS DISTRICT OF COLUMBIA,
Washington, D. C.

*Estimates of appropriations required for the service of the fiscal year ending June 30, 1883,
by the commissioner of the sinking fund.*

Detailed objects of expenditure, and explanations.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the current fiscal year ending June 30, 1882.
DISTRICT OF COLUMBIA.		
For interest and sinking fund on the funded debt, exclusive of water bonds (appropriated March 3, 1879, 21 Stat. at L., p. 466; 20 Stat. at L., p. 410)	\$1, 213, 947 97	\$1, 213, 947 97
For sinking-fund office:		
For salary of the Treasurer of the United States, commissioner of the sinking fund acting as treasurer thereof (March 3, 1875, 18 Stat. at L., p. 376; June 11, 1878, 20 Stat. at L., p. 104, sec. 7)	1, 000 00	.....
For two clerks of class one (appropriated Stat. at L., 21, p. 461)	2, 400 00	2, 400 00
For contingent expenses, including books, stationery, printing, and miscellaneous items (appropriated 21 Stat. at L., p. 461)	300 00	300 00

JAS. GILFILLAN,
Treasurer United States, Commissioner of the Sinking Fund, District of Columbia.

SEPTEMBER 16, 1881.

REPORT OF THE AUDITOR AND COMPTROLLER.

OFFICE OF THE AUDITOR AND COMPTROLLER,
DISTRICT OF COLUMBIA,

November 1, 1881.

GENTLEMEN: I have the honor to submit the following report of receipts and expenditures of the District government for the fiscal year ending June 30, 1881.

The revenue of the District government, from all sources, during said time, was \$4,147,817.75, as follows:

Receipts from taxes, licenses, and miscellaneous sources on account of general expenses of the District of Columbia.....	\$1,839,775 19
Receipts from payments to various appropriations on account of general expenses of the District of Columbia and water fund	4,671 56
Receipts on account of water department	140,331 59
Receipts on account of redemption of tax-lien certificates	2,645 20
Receipts on account of redemption of special-tax scrip	14,133 00
Receipts on account of Washington redemption fund	259 23
Receipts on account of paving Pennsylvania avenue, act July 8, 1870	658 25
Receipts on account of repaving Pennsylvania avenue, act July 19, 1876	622 55
Receipts from sale of property, act March 3, 1881	2,294 52
Receipts from taxes erroneously collected	5,801 42
Receipts from Congressional appropriations on account of general expenses of the District of Columbia, act June 4, 1880	1,702,628 67
Receipts on account of deficiency interest on 3.65 bonds, act January 31, 1881	81,084 97
Receipts on account of additional policemen, act March 1, 1881	3,238 50
Receipts on account of deficiencies 1880 and 1881, act March 3, 1881	11,558 70
Receipts on account of salary Engineer Commissioner, act March 3, 1881	190 95
Receipts on account of payment of judgments, act March 3, 1881	15,000 00
Receipts on account of filling grounds south of the Capitol, act January 27, 1881	20,000 00
Balance on hand June 30th, 1880	302,923 45
Total revenue.....	4,147,817 75

The expenditures by the District government during the same period were \$3,547,351.90, as follows:

Payments on account of general expenses of the District of Columbia:	
For improvement and repairs	\$482,313 76
For institutions of charity, reformatories, &c	199,712 60
For constructing, repairing, and maintaining bridges	11,491 12
For engineering and maintaining Washington Aqueduct	20,000 00
For salaries and contingent expenses of the offices of the District of Columbia	148,642 48
For streets, District of Columbia	264,686 66
For public schools, current expenses	409,329 72
For erection of school buildings	117,981 91
For Metropolitan police	307,050 28
For fire department and alarm telegraph	106,262 97
For courts	12,197 27
For judicial expenses	2,875 32
For judgments against the District of Columbia	54,325 42
For markets	10,519 25
For health department	26,928 11
For interest and sinking fund	1,317,843 48
For miscellaneous and general contingent expenses of the District of Columbia	32,449 66
For purchase of police-court building	20,000 00
For claim of Thomas Lucas, act June 10, 1880	2,741 89
Total payments on account of general expenses	3,547,351 90

For water department	\$140,738 74
For filling grounds south of Capitol.....	19,887 40
For refunding erroneously paid taxes	5,801 42
For redemption of special-tax scrip	16,342 88
For redemption of tax-lien certificates	2,080 42
For redemption of tax-sale certificates	661 17
For redemption of Pennsylvania avenue paving scrip, act July 19, 1876..	3,009 75
For redemption of Pennsylvania avenue paving scrip, act July 8, 1870..	1,175 99
Total expenditures during the fiscal year.....	3,737,049 67

RECAPITULATION.

Total receipts during the fiscal year.....	4,147,817 75
Total expenditures during the fiscal year	3,737,049 67

Balance in United States Treasury July 1, 1881.....	410,768 08
Subject to requisition and draft on account of general expenses of the District of Columbia:	
Appropriation, 1879	\$2,673 14
Appropriation, 1880	74,390 14
Appropriation, 1881	294,042 11
Appropriation, 1882	1,028 42
On account of War Department	372,133 81
On account of redemption of Washington special-tax scrip.....	30,113 92
On account of Washington redemption fund.....	3,200 80
On account of redemption of tax-lien certificates.....	292 75
On account of paving Pennsylvania avenue, act July 8, 1870	1,344 69
On account of repaving Pennsylvania avenue, act July 19, 1876	743 26
On account of filling grounds south of the Capitol:	174 93
Act February 4, 1880	\$43 44
Act April 4, 1878	5 08
Act July 10, 1879	14 23
Act January 27, 1881	113 85
	176 60
On account of general expenses, act March 3, 1875.....	292 31
On account of fire department, act June 22, 1874.....	49
On account of sales of property in Washington and Georgetown for police stations and fire-engine house, act March 3, 1881.....	2,294 52
Total balance July 1, 1881	410,768 08

The treasurer of the District of Columbia has paid into the United States Treasury, as required by law, all moneys received by him during the fiscal year, and fully accounted for the same.

The number of audits made during the year was 5,167, and of checks drawn 21,660.

For a more detailed statement of receipts and expenditures, see accompanying exhibits, marked Appendix C 1 and Appendix C 2.

Respectfully submitted.

JOHN T. VINSON,

Auditor and Comptroller, District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX C 1.

RECEIPTS.

Statement by the auditor and comptroller of the cash receipts of the District of Columbia, as reported by the treasurer, from July 1, 1880, to June 30, 1881.

From whom and on what account received.	Detail.	Total.	Aggregate.
John F. Cook, collector:			
General fund, District of Columbia.....	\$1,790,551 12		
Street railroads, special deposits.....	3,295 83		
Water rents and tax.....	140,331 59		
Refund on tax delinquencies (trust).....	2,645 20		
Refund on special tax sale (trust).....	14,133 00		
Washington redemption fund (trust).....	259 23		
Paying Pennsylvania Avenue act July 8, 1876 (trust).....	658 25		
Repaying Pennsylvania Avenue act July 12, 1876 (trust).....	622 55		
		\$1,952,496 77	
Northern market.....	5,178 79		
Eastern market.....	2,811 90		
Western market.....	4,436 32		
Georgetown market.....	1,512 76		
		13,939 77	
Fines police court &c.....	16,861 39		
Fines criminal court.....	1,741 46		
		18,602 85	
Rent of District property.....	590 00		
Rent of District law books.....	1,002 92		
Rent of fish wharf &c.....	837 49		
		2,430 41	
Interest on bonds, Washington school funds.....		2,576 90	
Bonds purchased, Washington school funds.....		3,429 83	
Washington Market Company, time lease rental.....		7,500 00	
Fees for building and repair permits.....		3,239 00	
Salaries of marshals.....	274 00		
Salaries of commissioners, market by sale of weights and measures.....	2 21		
		276 21	
Advertisements for special assessments prior to 1878.....		309 21	
James S. Wilson, late treasurer District of Columbia.....		1,100 61	
W. H. Shaw, late collector District of Columbia.....		160 56	
Refund on late paying commission appointed under act of Congress, approved July 12, 1876.....		1,081 74	
Sale of Washington property act March 3, 1881 (trust).....	2,189 52		
Sale of Georgetown property act March 3, 1881 (trust).....	105 00		
		2,294 52	
Sale of lots in Washington act March 3, 1881, general funds.....		378 40	
Repayments to various appropriations and water fund.....		1,375 73	
			\$2,011,192 51
From Congress and appropriations:			
Act January 22, 1881, to aid commerce with the Capitol.....		20,000 00	
Act January 22, 1881, to aid commerce with the Capitol.....		1,702,628 67	
Act January 22, 1881, to aid commerce with the Capitol.....		81,084 97	
Act January 22, 1881, to aid commerce with the Capitol.....		3,238 50	
Act March 3, 1881, to aid commerce with the Capitol.....		11,558 70	
Act March 3, 1881, to aid commerce with the Capitol.....		190 95	
Act March 3, 1881, payment of judgments.....		15,000 00	
			1,833,701 79
Grand aggregate of receipts.....			3,844,894 30

AUDITOR AND COMPTROLLER'S OFFICE, D. C.
Washington, November 25, 1881.

JOHN T. VINSON,
Auditor and Comptroller District of Columbia.

APPENDIX C 2.

EXPENDITURES.

Statement of the expenditures on account of the government of the District of Columbia from July 1, 1880, to June 30, 1881.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
IMPROVEMENTS AND REPAIRS.				
Repairs to concrete pavements, 1881	\$51,725 28			
Repairs to concrete pavements, 1880	122 28			
Total for concrete pavements		\$51,847 56		
Work on sundry streets and avenues and replacement of pavements, 1881	270,555 74			
Work on sundry avenues and streets and replacement of pavements, 1880	733 08			
Total for work on streets, &c		271,288 82		
Materials for permit work, 1881	19,710 95			
Materials for permit work, 1880	694 14			
Total for permit work		20,405 09		
Repairing and macadamizing Seventh street road, 1881		14,955 50		
Surveys of the District with reference to the future extension of avenues, 1881		4,988 34		
Work on New York avenue intercepting sewer, 1881		22,180 01		
Work on Boundary street auxiliary sewer, 1881	10,187 21			
Work on Boundary street auxiliary sewer, 1880	17,181 64			
Work on Boundary street auxiliary sewer, 1879	45,945 04			
Total for Boundary street sewer		73,313 89		
Lateral sewers, 1881	14,473 90			
Lateral sewers, 1880	5,423 95			
Total for lateral sewers		19,897 85		
Work on canal to deep water on the river front, 1881		3,436 70		
Aggregate for improvements, &c			\$482,313 76	
BRIDGES, CONSTRUCTING, REPAIRING, &c.				
Ordinary care, repairing, &c., of Benning's, Anacostia, and Chain bridges, &c., 1881		5,500 00		
Repairs to M street bridge, 1881		5,991 12		
Total for bridges			11,491 12	
CHARITIES AND CORRECTIONS.				
Washington Asylum:				
Compensation of employes, 1881	9,524 85			
Contingent expenses, 1881	27,996 87			
Contingent expenses, 1880	670 87			
Completion of south wing of new workhouse at Washington Asylum, 1881	9,964 46			
Total for Washington Asylum		48,157 05		
Georgetown Almshouse:				
Support of inmates, 1881	1,508 04			
Support of inmates, 1880	30 38			
Total for almshouse		1,538 42		
Government Hospital for the Insane:				
Support of indigent insane, 1881	37,000 00			
Support of indigent insane, 1880	4,785 98			
Total for hospital		41,785 98		
Reform School:				
Support of boys, 1881	27,722 52			
Support of boys, 1880	1,359 14			
Total for Reform School		29,081 66		
Transportation of paupers and conveying prisoners to workhouse, 1881	3,575 29			
Transportation of paupers and conveying prisoners to workhouse, 1880	131 80			
Total for transportation, &c		3,707 09		

Statement of expenditures on account of government of District of Columbia, &c.—Cont'd

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
Relief of the poor, 1881.....	\$9,865 25			
Relief of the poor, 1880.....	777 15			
Total for relief of the poor.....		\$10,642 40		
Payments to institutions:				
Columbia Hospital for Women and Lying-in Asylum, 1881.....	15,000 00			
Erection of cottages on grounds of the Columbia Hospital, &c., 1881.....	3,000 00			
Children's Hospital, 1881.....	5,000 00			
Saint Ann's Infant Asylum, 1881.....	5,000 00			
Industrial Home School, 1881.....	10,000 00			
National Association for Colored Women and Children, 1881.....	6,500 00			
Women's Christian Association, 1881.....	5,000 00			
Little Sisters of the Poor, 1881.....	5,000 00			
Erection of building for the German Orphan Asylum, 1881.....	10,000 00			
Penny Lent House, 1879.....	300 00			
Total for payments to institutions.....		64,800 00		
Aggregate for charities and corrections.....			\$199,712 60	
WASHINGTON AQUEDUCT.				
Employing and maintaining, 1881.....			20,000 00	
SALARIES AND CONTINGENT EXPENSES—OFFICES.				
Executive office:				
Compensation of employes, 1881.....	17,370 19			
Contingent expenses, 1881.....	2,152 47			
Contingent expenses, 1880.....	89 68			
Total for executive office.....		19,612 34		
Admiral and commodore's office:				
Compensation of employes, 1881.....	12,400 00			
Contingent expenses, 1881.....	474 14			
Contingent expenses, 1880.....	41 78			
Total for admiral and commodore's office.....		12,915 92		
Old records division:				
Compensation of employes, 1881.....		2,100 00		
Special-assessment division:				
Compensation of employes, 1881.....	4,200 00			
Contingent expenses, 1881.....	103 98			
Total for special-assessment division.....		4,303 98		
Treasurer and assessors' office:				
Compensation of employes, 1881.....	17,900 00			
Contingent expenses, 1881.....	1,995 96			
Contingent expenses, treasurer's office, 1880.....	94 32			
Contingent expenses, assessor's office, 1880.....	129 27			
Preparing map of county, showing subdivisions of real estate, 1881.....	1,000 96			
Total for treasurer and assessor's office.....		21,120 51		
Collector's office:				
Compensation of employes, 1881.....	9,000 00			
Contingent expenses, 1881.....	1,093 01			
Contingent expenses, 1880.....	548 91			
Total for collector's office.....		10,641 92		
Sinking-fund office:				
Compensation of employes, 1881.....	2,400 00			
Contingent expenses, 1881.....	97 65			
Contingent expenses, 1880.....	4 25			
Total for sinking-fund office.....		2,501 90		
Coroner's office:				
Compensation of coroner, 1881.....	1,800 00			
Contingent expenses, 1881.....	30 50			
Contingent expenses, 1880.....	186 21			
Contingent expenses, 1879.....	92 00			
Payment of coroner's jurors, 1881.....	495 00			
Total for coroner's office.....		2,603 71		
Attorney's office:				
Compensation of employes, 1881.....	7,997 00			
Contingent expenses, 1881.....	232 69			

Statement of expenditures on account of government of District of Columbia, &c.—Cont'd.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
Contingent expenses, 1880.....	\$49 51			
Rent of office, 1881.....	225 00			
Revision of laws, 1880.....	31 62			
Total for attorney's office.....		\$8,535 82		
Inspector of buildings' office:				
Compensation of employes, 1881.....	5,580 00			
Compensation of inspector of plumbing, 1881.....	450 00			
Contingent expenses, 1881.....	265 92			
Contingent expenses, 1880.....	138 04			
Total for inspector of buildings' office.....		6,433 96		
Division of property:				
Compensation of employes, 1881.....	11,166 10			
Rent of property yards, 1881.....	275 00			
Total for property division.....		11,441 10		
Engineer's office:				
Compensation of employes, 1881.....	28,806 35			
Contingent expenses, 1881.....	4,674 73			
Contingent expenses, 1880.....	619 51			
Total for engineer's office.....		34,100 59		
Sundries:				
Compensation of employes, division of streets, alleys, and roads, 1881.....	5,600 00			
Compensation of employes, office inspector of gas and meters, 1881.....	3,000 00			
Compensation of harbor-master, 1881.....	40 00			
Compensation of harbor-master, 1880.....	80 00			
Compensation of scaler of weights and measures, 1881.....	80 00			
Fuel, ice, gas, repairs, and miscellaneous expenses offices, 1881.....	3,185 99			
Fuel, ice, gas, repairs, and miscellaneous expenses office, 1880.....	344 74			
Total for sundries.....		12,330 73		
Aggregate for salaries and contingent expenses.....			\$148,642 48	
STREETS.				
Removal of garbage.....		10,323 09		
Cleaning, sprinkling, and sweeping streets and avenues, 1881.....	30,357 77			
Cleaning, sprinkling, and sweeping streets and avenues, 1880.....	2,925 00			
Total for cleaning streets, &c.....		33,282 77		
Cleaning alleys, 1881.....	5,542 61			
Cleaning alleys, 1880.....	462 23			
Total for cleaning alleys.....		6,004 84		
Current work of repairs to streets, alleys, and roads, 1881.....	69,290 30			
Current work of repairs to streets, alleys, and roads, 1880.....	772 94			
Total for current work, &c.....		70,063 24		
Parking commission:				
Compensation of employes, 1881.....	1,920 00			
Contingent expenses, 1881.....	13,322 46			
Contingent expenses, 1880.....	485 30			
Total for parking commission.....		15,727 76		
Cleaning tidal sewers, 1881.....	2,814 88			
Cleaning tidal sewers, 1880.....	5 45			
Total for cleaning tidal sewers.....		2,820 33		
Street lamps and gas:				
Illuminating materials, lighting, &c., 1881.....	107,229 36			
Illuminating materials, lighting, &c., 1880.....	11,678 04			
Repairs to lamps, 1881.....	822 71			
Repairs to lamps, 1880.....	38 61			
Erection of lamps, 1881.....	1,196 33			
Compensation of superintendent, 1881.....	900 00			
Lamps in alleys, and lighting same, 1881.....	1,593 32			
Total for lamps and gas.....		123,458 37		
Repairs to pumps, 1881.....		3,006 26		
Aggregate for streets.....			264,686 66	

42 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of expenditures on account of government of District of Columbia, &c.—Cont'd.

Title of accounts.	Details.	Total.	Aggregate.	Grand aggregate.
PUBLIC SCHOOLS.				
Compensation of officers, teachers, and janitors, 1881		\$330,343 18		
Rent of school buildings, including interest on Linthicum loan, \$2,400	\$28,806 11			
Rent of school buildings, 1880	27 05			
Rent of school buildings, 1879	464 23			
Total for rent		29,297 39		
Fuel for schools, 1881	12,000 00			
Fuel for schools, 1880	172 29			
Total for fuel		12,172 29		
Repairs to school buildings, 1881	14,628 61			
Repairs to school buildings, 1880	756 82			
Total for repairs		15,385 43		
Contingent expenses, 1881	20,665 82			
Contingent expenses, 1880	1,465 61			
Total for contingent expenses		22,131 43		
Aggregate for current expenses of schools			\$409,329 72	
ERECTION OF SCHOOL BUILDINGS.				
School buildings 2d division, 1881		35,000 73		
School building in county, 1881		10,000 00		
School building for colored schools, 1881		36,258 16		
Force school building, 1880		17,861 57		
Peabody school building, 1880		18,861 45		
Aggregate for erection of school buildings			117,981 91	
METROPOLITAN POLICE.				
Compensation of employes, 1881		284,474 13		
Pay and equipment of 300 additional policemen, 1881		6,444 28		
Rent of station-houses, 1881	5,765 00			
Rent of station-houses, 1880	825 00			
Total for rent		6,590 00		
Fuel for police stations, 1881		1,274 23		
Repairs to station-houses, 1881	1,079 20			
Repairs to station-houses, 1880	283 45			
Total for repairs		1,362 65		
Contingent expenses, 1881	6,459 31			
Contingent expenses, 1880	445 68			
Total for contingent expenses		6,904 99		
Aggregate for police			307,050 28	
FIRE DEPARTMENT AND ALARM.				
Compensation of employes, 1881	75,740 00			
Compensation of two telegraph operators, 1880	400 00			
Total compensation		76,140 00		
Repairs to engine-houses, 1881	900 51			
Repairs to engine-houses, 1880	25 50			
Total repairs to houses		926 01		
Fuel for department, 1881	972 38			
Fuel for department, 1880	210 00			
Total for fuel		1,182 38		
Purchase of horses		2,000 00		
Repairs to apparatus, 1881	3,494 30			
Repairs to apparatus, 1880	475 00			
Total repairs to apparatus		3,969 30		
Repairs to telegraph line, 1881		978 24		
Contingent expenses, 1881	19,934 24			
Contingent expenses, 1880	1,132 80			
Total contingent expenses		21,067 04		
Aggregate for fire department			106,262 97	

Statement of expenditures on account of government of District of Columbia, &c.—Cont'd.

Title of accounts.	Details.	Total.	Aggregate.	Grand aggregate.
COURTS AND JUDICIAL EXPENSES.				
Police court:				
Compensation of employes, 1881	\$9,318 00			
Marshal's fees, 1881	1,619 50			
Marshal's fees, 1880	87 00			
Contingent expenses, 1881	1,170 64			
Contingent expenses, 1880	2 13			
Total for police court		\$12,197 27		
Judicial expenses:				
Payment of witnesses, clerk's fees, &c., 1881	1,133 17			
Payment of witnesses, clerk's fees, &c., 1880	7 15			
Payment of costs in case of Strong vs. District of Columbia (deficiency), 1880	1,735 00			
Total for judicial expenses		2,875 32		
Aggregate for courts and judicial expenses			\$15,072 59	
PAYMENT OF JUDGMENTS.				
Judgments paid, 1882	13,971 58			
Judgments paid, 1881	2,579 55			
Judgments paid (deficiency), 1880	37,774 29			
Aggregate for judgments			54,325 42	
MARKETS.				
Compensation of market-masters, 1881	4,579 62			
Compensation of market-masters, 1880	484 60			
Total compensation		5,064 22		
Contingent expenses, 1881	4,383 17			
Contingent expenses, 1880	208 61			
Total for contingent expenses		4,591 78		
Rent of market sites, 1881	604 92			
Rent of market sites, 1880	258 33			
Total for rent		863 25		
Aggregate for markets			10,519 25	
HEALTH DEPARTMENT.				
Compensation of employes, 1881		21,338 50		
Contingent expenses, 1881	4,027 21			
Contingent expenses, 1880	169 14			
Total for contingent expenses		4,196 35		
Expenses provided for in deficiency bill, 1879		1,393 26		
Aggregate for health department			26,928 11	
INTEREST AND SINKING FUND.				
Payment of interest and sinking fund on the bonded debt of the District of Columbia			1,317,843 48	
MISCELLANEOUS EXPENSES.				
Hay-scales, repairs to, 1881		52 90		
Rent of District offices, 1881	3,600 00			
Rent of District offices, 1880	300 00			
Total for rent		3,900 00		
General advertising, 1881	4,078 16			
General advertising, 1880	158 45			
Total for advertising		4,236 61		
Removal of bodies from Holmead's cemetery, 1881		2,000 00		
Purchase of police-court building, 1881		20,000 00		
Amount due property owners for ground condemned, 1881		7,561 76		
General contingent expenses, D. C. 1881	9,255 74			
General contingent expenses, D. C., 1880	634 54			
Total for general contingent expenses		9,890 28		
Relief of Thomas Lucas (act June 10, 1880)		2,741 89		

44 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of expenditures on account of government of District of Columbia, &c.—Cont'd.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
Books for register of wills, printing checks, damages and miscellaneous expenses, 1881.....	\$4, 612 26			
Books for register of wills, printing checks, damages, and miscellaneous expenses, 1880.....	195 85			
Total for books for register of wills, &c		\$4, 808 11		
Aggregate for miscellaneous.....			\$55, 191 55	
Grand aggregate of expenditures from appropriations for the District of Columbia				\$3, 547, 351 90
SPECIAL APPROPRIATIONS.				
Filling up, draining, and placing in good sanitary condition the grounds south of Capitol (Jan. 27, 1881).....	19, 886 15			
Filling up, draining, &c., grounds south of Capitol (February 4, 1880)	1 25			
Aggregate for special appropriations			19, 887 40	
WATER DEPARTMENT.				
Compensation of employés in office		10, 830 00		
Compensation of laborers.....		23, 692 55		
Erection of stand-pipe		1, 580 39		
Refunding erroneously paid water rent and taxes.....		290 24		
Interest and sinking fund on water-stock bonds (by requisition)		74, 123 77		
Contingent expenses.....		30, 221 79		
Aggregate for water department			140, 738 74	
SPECIAL AND TRUST FUNDS.				
Refunding erroneously paid taxes		5, 801 42		
Redemption of special-tax scrip.....		16, 342 88		
Redemption of tax-lien certificates.....		2, 080 42		
Redemption of tax-sale certificates.....		661 17		
Redemption of Pennsylvania avenue paving scrip, act July 19, 1876		3, 009 75		
Redemption of Pennsylvania avenue paving scrip, act July 8, 1870		1, 175 99		
Aggregate for special accounts			29, 071 63	
Grand aggregate of expenditures on account of special appropriations, water department and trust funds				189, 697 77
Grand aggregate of expenditures on account of the government of the District of Columbia, for year ending June 30, 1881				3, 737, 049 67

AUDITOR AND COMPTROLLER'S OFFICE, D. C.,
Washington, August 19, 1881.JOHN T. VINSON,
Auditor and Comptroller, D. C.

APPENDIX C 3.

ESTIMATES.

OFFICE OF THE AUDITOR AND COMPTROLLER,
DISTRICT OF COLUMBIA,
Washington, December 15, 1881.

GENTLEMEN : I have the honor to submit the following estimate of the expenses of this office for the fiscal year ending June 30, 1883 :

One auditor and comptroller	\$3,000 00
One bookkeeper	1,800 00
One clerk	1,600 00
Three clerks, at \$1,400 each	4,200 00
One clerk	1,200 00
One messenger	600 00
Contingent expenses	500 00
	\$12,900 00

Very respectfully,

JOHN T. VINSON,
Auditor and Comptroller, District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

REPORT OF THE COLLECTOR OF TAXES.

OFFICE OF THE COLLECTOR OF TAXES OF THE DISTRICT OF COLUMBIA,
Washington, D. C., September 15, 1881.

GENTLEMEN :

I have the honor to submit the following report, showing the amount of tax balances with which this office was debited at the beginning of the fiscal year commencing July 1, 1880; also the amount of the tax-leveys, real and personal, for the year ending June 30, 1881, received November 1, 1880, together with the amounts received for collection on account of the water-fund, licenses, dog tax, fees, penalties, &c., and the amount collected on account of the same during the fiscal year ending June 30, 1881:

Dr.

Cr.

To balance of taxes due on July 1, 1880, as follows:		By amount collected during the year ending June 30, 1881, viz:	
For the years 1845 to 1864.....	} Arrears of the old corporation of Washington real estate.	Account taxes for the years 1845 to 1864.....	} { Arrears of the corporation of Washington, D. C., real estate.
For the years 1865 to 1866.....		Account taxes for the years 1865 to 1866.....	
For the years 1867 to 1868.....		Account taxes for the years 1867 to 1868.....	
For the years 1869 to 1870.....		Account taxes for the years 1869 to 1870.....	
For the years 1871-72, real estate.....	}	Account taxes for the years 1871-72, real estate.....	1, 016 84
For the years 1872-73, real estate.....		Account taxes for the years 1872-73, real estate.....	4, 437 11
For the year 1874, real estate.....		Account taxes for the year 1874, real estate.....	9, 391 59
For the year 1875, real estate.....		Account taxes for the year 1875, real estate.....	20, 958 48
For the year 1876, real estate.....		Account taxes for the year 1876, real estate.....	15, 499 62
For the year 1877, personal.....		Account taxes for the year 1877, real estate.....	28, 379 10
For the year 1878, real estate.....		Account taxes for the year 1877, personal.....	10, 271 40
For the year 1878, personal.....		Account taxes for the year 1878, real estate.....	48, 330 38
For the year 1879, real estate.....		Account taxes for the year 1878, personal.....	15, 991 12
For the year 1879, personal.....		Account taxes for the year 1879, real estate.....	75, 036 31
For the year 1880, real estate.....		Account taxes for the year 1879, personal.....	17, 234 70
For the year 1880, personal.....		Account taxes for the year 1880, real estate.....	167, 434 95
(Received for collection November 1, 1880) 1881, real estate.....		Account taxes for the year 1880, personal.....	31, 997 27
(Received for collection November 1, 1880) 1881, personal.....		Account taxes for the year 1881, real estate.....	1, 068, 937 53
		Account taxes for the year 1881, personal.....	130, 371 96
			\$1, 649, 640 84
Miscellaneous items received for collection:		Miscellaneous items received for collection:	
To amount penalty on taxes for years 1845 to 1870, real estate.....	1, 452 52	Account penalty on taxes for the years 1845 to 1870, real estate.....	1, 452 52
To amount penalty on taxes for years 1871-72, real estate.....	518 99	Account penalty on taxes for the years 1871-72, real estate.....	518 99
To amount penalty on taxes for years 1872-73, real estate.....	2, 514 38	Account penalty on taxes for the years 1872-73, real estate.....	2, 514 38
To amount penalty on taxes for year 1874, real estate.....	4, 022 33	Account penalty on taxes for the year 1874, real estate.....	4, 022 33
To amount penalty on taxes for year 1875, real estate.....	8, 463 28	Account penalty on taxes for the year 1875, real estate.....	8, 463 28
To amount penalty on taxes for year 1876, real estate.....	5, 100 92	Account penalty on taxes for the year 1876, real estate.....	5, 100 92
To amount penalty on taxes for year 1877, real estate.....	7, 492 47	Account penalty on taxes for the year 1877, real estate.....	7, 492 47
To amount penalty on taxes for year 1877, personal.....	2, 163 49		
To amount penalty on taxes for year 1878, real estate.....	9, 898 79		

To amount penalty on taxes for year 1878, personal.....	2,405 18	Account penalty on taxes for the year 1877, personal.....	2,163 19
To amount penalty on taxes for year 1879, real estate.....	10,213 75	Account penalty on taxes for the year 1878, real estate.....	9,898 79
To amount penalty on taxes for year 1879, personal.....	1,685 67	Account penalty on taxes for the year 1878, personal.....	2,405 18
To amount penalty on taxes for year 1880, real estate.....	22,643 25	Account penalty on taxes for the year 1879, real estate.....	10,213 75
To amount penalty on taxes for year 1880, personal.....	4,728 37	Account penalty on taxes for the year 1879, personal.....	1,685 67
To amount penalty on taxes for year 1881, real estate.....	9,644 71	Account penalty on taxes for the year 1880, real estate.....	22,643 25
To amount penalty on taxes for year 1881, personal.....	915 41	Account penalty on taxes for the year 1880, personal.....	4,728 37
To amount penalty on Washington redemption fund.....	12 29	Account penalty on taxes for the year 1881, real estate.....	9,644 71
To amount penalty on special taxes, old corporation of Washington.....	7,491 01	Account penalty on taxes for the year 1881, personal.....	915 41
		Penalty on special taxes, old corporation of Washington, D. C.....	7,491 01
To amount advertising tax arrears for the years 1875 to 1880.....	101,366 81	Penalty on Washington redemption fund.....	12 29
To amount redemption fund (exclusive of penalty).....	1,561 79		
To amount paving Pennsylvania avenue.....	246 94	Account advertising tax arrears of the years 1875 to 1880, inclusive.....	101,366 81
To amount special taxes, old corporation of Washington.....	1,280 80	Account Washington redemption fund, exclusive of penalty.....	1,561 79
To amount licenses District of Columbia.....	7,472 96	Account paving Pennsylvania avenue.....	246 94
To amount dog tax.....	145,238 42	Account special taxes, corporation of Washington, exclusive of penalty.....	1,280 80
To amount permit fees.....	3,336 32	Account licenses, District of Columbia.....	7,472 96
To amount auctioneer's returns on special sales.....	3,992 75	Account dog tax.....	145,238 42
To amount relaying pavement adjacent to railway tracks.....	1,370 00	Account permit fees.....	3,336 32
To amount material furnished plumbers.....	155 76	Account certificates of taxes.....	3,992 75
		Account auctioneers' returns on special sales.....	1,370 00
To amount collected in excess of what was charged to collector District Columbia, assessment general tax arrears, corporation Washington.....	26 02	Account relaying pavement adjacent to railway tracks.....	155 76
To amount collected in excess of what was charged to collector District Columbia, assessment general tax 1871-'72.....	3,295 83	Account material furnished plumbers.....	3,295 83
	226 62		226 62
		Account case of distraint for collection personal taxes.....	163,616 40
To amount collected in case of distraint for collection of personal taxes.....	557 14	Account water rents, taps, building purposes, &c.....	6 07
To amount water rents, taps for building purposes, &c.....		Account water main tax advertised.....	140,331 59
To amount water-main taxes advertised.....		Total amount collected during the year ending June 30, 1881.....	2,056,523 50
		By abatement allowed by law, on general tax 1881.....	
		By allotment allowed by law, on personal tax 1881.....	
		By cash paid treasurer District of Columbia by collector District Columbia, account of above.....	
		By drawbacks deposited with treasurer District of Columbia by collector District of Columbia, account of above.....	
		By tax-lien certificates deposited with treasurer District of Columbia by collector District Columbia, account of above.....	

Dr.			Cr.
	By paying stock deposited with treasurer District of Columbia by collector District of Columbia, account as above.....	1,609 03	
	Amount in full.....	2,056,523 50	
	By balance uncollected taxes, 1845 to 1881, real.....	\$996,374 89	
	By balance uncollected taxes, 1877 to 1881, personal.....	202,803 06	
	Total.....	3,255,701 45	3,255,701 45

RECAPITULATION.

Amount collected on account real estate tax, all years, during the years ending June 30, 1881.....	\$1,443,774 39
Amount collected on account personal tax, all years, during the year ending June 30, 1881.....	205,803 45
Amount collected on account water fund, all years, during the year ending June 30, 1881.....	140,331 59
Amount collected on account miscellaneous items received for collection, all years, during the year ending June 30, 1881.....	165,184 26
Amount collected on account penalties, all years, during the year ending June 30, 1881.....	101,366 81
To balance uncollected taxes remaining due July 1, 1881 (real estate tax, \$996,374.89; personal tax, \$202,803.06).....	\$2,056,523 50
	1,199,177 95
	\$3,255,701 45

PER CONTRA.

By cash deposited with the treasurer of the District of Columbia, as per vouchers.....	1,952,496 77
By drawbacks deposited with the treasurer of the District of Columbia, as per vouchers.....	60,087 31
By tax-lien certificates deposited with the treasurer of the District of Columbia, as per vouchers.....	1,021 86
By paying stock deposited with the treasurer of the District of Columbia, as per vouchers.....	1,609 03
By abatement allowed by law, 5 per cent., on general tax payments during the month of November, 1880.....	\$36,236 36
By abatement allowed by law, 5 per cent., on personal tax payments during the month of November, 1880.....	5,072 17
	41,308 53
By balance uncollected taxes, as shown above.....	2,056,523 50
	1,199,177 95
	3,255,701 45

The following items in the above exhibit of receipts were collected through this office for use of third parties holding the liens respecting the taxes:

Special taxes—principal, \$7,472.96; interest, \$7,491.01	\$14,963 97
On account general tax for the years ending June 30, 1872, and June 30, 1873, represented by tax-lien certificates, principal and interest	2,645 20
On account Washington redemption fund, principal and interest	259 23
On account relaying pavement adjacent to railway tracks	3,295 83
On account paving Pennsylvania avenue	1,280 80
Total	22,445 03

A large percentage of the personal-tax balance as originally charged against this office by the assessor of the District of Columbia has been discharged by revision and legal adjustment, so that the amount of said balance, as stated, is not real; and in this connection it is respectfully asked that this account may be audited, and a reliable debit balance charged against the collector; also, that the general tax balance as charged against this office may be subjected to the same audit and review with like object, for by act of Congress approved March 3, 1881, clearing titles of church and other property, and by other adjustments, the arrear balance with which the collector has been charged has been disturbed.

On the 30th day of June, 1880, it was, by order of the Commissioners of the District of Columbia, made the duty of the collector of taxes to review, collect, and account for all taxes assessed for special improvements. In accordance with this order there has been collected upon bills furnished by the special assessment division, in bonds, coupons (and their accrued interest), drawback certificates, and cash, and placed to the credit of the several enumerated accounts, and to the receiving officers, as directed by the Commissioners District of Columbia in subsequent orders, amounts as follows, viz:

On general account (<i>i. e.</i> , assessments for which no certificates had been issued at the time of their collection), principal only	\$172,082 65
On account of assessments, where certificates had been issued and held by the commissioner of the sinking fund of the District of Columbia, principal and interest	186,171 99

The above aggregate amounts of receipts on said respective accounts were severally deposited directly with the Treasurer of the United States, less the amount received in drawback certificates, which was delivered, as subsequently directed by the Commissioners District of Columbia, to the "chief of the special assessment division."

On account of certificates held by third parties—First National Bank of New York and others, principal and interest	38,260 19
(This amount so collected turned over to the chief of the special assessment division as directed by the Commissioners District of Columbia.)	
On account condemnation of alleys not represented by certificates held by the commissioner of the sinking fund of the District of Columbia	146 13
(This amount so collected delivered to the treasurer of the District of Columbia as directed by the Commissioners District of Columbia.)	
On account costs attending advertising and sales of real estate to satisfy special assessments	372 34
(The amounts so collected delivered to the treasurer of the District of Columbia, as directed by the Commissioners District of Columbia.)	
Total amount collected on account of special assessments	397,033 30

The order transferring the special assessment account to this office also transferred John W. Clarke from the special assessment division, and by whose assistance this portion of the collection has been mainly made. The limited clerical force of this office renders it ineffective for many direct and relative duties appertaining to it, and imposes much

extra service on its employés. The restoration of the service of two clerks is therefore earnestly requested.

Respectfully submitted.

JOHN F. COOK,

Collector Taxes, District of Columbia.

Honorable COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX D 1.

ESTIMATES.

OFFICE OF COLLECTOR OF TAXES,
DISTRICT OF COLUMBIA,
Washington, September 24, 1881.

GENERAL: I have the honor to submit the following estimate of the expenses of this office for the fiscal year ending June 30, 1883:

SALARIES.

For collector of taxes, District of Columbia	\$4,000
For one clerk, as cashier.....	1,800
For one clerk, as bookkeeper.....	1,600
For one clerk, as entry-clerk.....	1,400
For one clerk, as assistant entry-clerk, &c.....	1,200
For one messenger	600
For contingent fund.....	1,500
	12,100

In the event of the bill-making duty being transferred from the office of the assessor, where this duty has been performed during so much of the current fiscal year as has elapsed, to this office, then the service of two additional clerks, at \$1,200 each, will be required, making an aggregate of fourteen thousand five hundred dollars, required for all expenses of this office.

Respectfully submitted.

JOHN F. COOK,

Collector of Taxes, District Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

E.—REPORT OF THE ASSESSOR.

ASSESSOR'S OFFICE, DISTRICT OF COLUMBIA,
September 10, 1881.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA:

GENTLEMEN: I have the honor to make the following report of the transactions of the treasurer and assessor's office for the fiscal year ending June 30, 1881.

TREASURER'S BRANCH.

From tax collector:

Receipts.

For general and personal taxes, trust funds, &c	\$1,664,254 49
For licenses.....	145,238 42
For water fund.....	140,331 59
	1,949,824 50

From claim of District of Columbia <i>vs.</i> J. S. Wilson.....	\$1,100 61
From Washington Market Company	7,500 00
From school fund, interest.....	2,576 90
From Western Market, bonus notes	3,429 83
From rents, hay scales	1,002 92
From rents, fish wharves	839 49
From rents, all other	590 00
From Eastern Market	2,811 90
From Western Market.....	4,436 32
From Northern Market	5,178 79
From Georgetown Market	1,512 76
From assistant attorney, collections and fines	649 75
From police-court fines	16,160 64
From building permits	3,239 00
From sales of old material	277 21
From sales of real estate.....	2,672 92
From United States marshal's fees	1,741 46
From claim <i>vs.</i> W. Slater, in full.....	160 56
From miscellaneous items.....	361 81
From amount refunded by Pennsylvania avenue paving commission...	1,081 74
From sundry repayments to appropriations.....	1,373 13
	2,008,520 24
From collector for special railroad deposits	2,672 27
Total	2,011,192 51

These receipts were paid into the United States Treasury, as the law required. Drawback certificates amounting to \$62,718.20 were received by the collector for arrears of taxes, as authorized by law, and were duly canceled, and one-half of this amount will be credited by the United States Treasury as revenue.

LICENSES

were issued during the year to the number of 4,065, amounting to \$145,239.42, which was paid in to the collector of taxes as follows:

By apothecaries	\$482 01
By auctioneers	1,353 78
By book agents	215 89
By bar-rooms	51,616 78
By banks and bankers	276 18
By brewers	247 92
By bill posters	20 00
By billiard tables	1,250 02
By commercial agents	38,023 54
By cattle brokers	260 00
By commission merchants	1,630 05
By claim agents.....	270 00
By dealers in junk	2,083 38
By dealers in ice	108 34
By dealers in old barrels.....	63 34
By dealers in liquor, wholesale	10,624 44
By entertainments	2,080 00
By hacks and vehicles	1,394 48
By hotels	2,139 59
By intelligence offices	25 00
By insurance agents	5,840 06
By livery stables	2,131 75
By manipulators of gas	832 25
By peddlers	842 88
By pawnbrokers.....	1,625 01
By photographers	435 01
By produce dealers.....	15,011 63
By restaurants	3,655 80
By sundries	99 29
By theaters	600 00
	145,238 42

This amount exceeds the collections of last year by the sum of \$24,598.85; the total increase being \$33,712.32, principally from commercial agents, and the decrease, \$9,113.47, mainly from bar-rooms, and fully justifies my recommendation of last year for an additional inspector of licenses, and I am fully satisfied that a larger expenditure in this direction would greatly increase the revenue.

ASSESSMENT BRANCH.

Statement of the assessed value of the real estate of the District of Columbia on the 30th June, 1880, after the correction of the tax-books.

Washington:

Taxable.....	\$77,256,610	
District of Columbia, property of.....	1,093,917	
Exempt from taxation.....	4,188,989	
United States, property of.....	80,201,104	
		\$162,740,620

Georgetown:

Taxable.....	5,282,096	
District of Columbia, property of.....	118,850	
Exempt from taxation.....	349,152	
United States, property of.....	72,427	
		5,822,525

County:

Taxable.....	6,414,372	
District of Columbia, property of.....	37,999	
Exempt from taxation.....	852,447	
United States, property of.....	3,142,586	
		10,447,398

Total in District of Columbia..... 179,010,543

Amount taxable:

Washington City.....	77,256,610	
Georgetown.....	5,282,096	
County.....	6,414,372	
		88,953,078

To this add the value of new improvements not heretofore assessed, after deducting those which no longer exist:

In Washington, 397 houses.....	1,336,500	
In Georgetown, 21 houses.....	49,350	
In county, 120 houses.....	139,470	
		1,525,320

90,478,398

ALTERATIONS OF TAX-BOOKS.

Changes, property to taxable from exempt, &c.:

In Washington.....	77,317	
In Georgetown.....	64,503	
In county.....	28,083	
		169,903

90,308,495

The assessed value of taxable real estate in the District on the 30th of June, 1881, is \$90,308,495.

AMOUNT OF TAX FOR 1881-'82.

Washington City, \$77,515,793, at \$1.50.....	\$1,177,736 83
Georgetown, \$5,282,943, at \$1.50.....	79,004 15
County, \$2,053,894, at \$1.50.....	30,808 41
County (agricultural), \$4,471,865, at \$13.....	44,718 65
Total tax.....	1,332,268 04

PERSONAL TAX.

The personal tax books for previous years have been settled, except about \$1,000 to be collected. The amount unpaid for 1881 was \$33,071.77 on July 1, 1881. The delinquent personal tax bills could not have been collected in the usual way—that is, by waiting for delinquents to come to the office—and it required vigorous effort on the part of the collector, with the aid of this office, to arrive at the result obtained. The returns from intangible property are rapidly diminishing, owing to the investment in exempt bonds, and I beg to refer to my previous reports for recommendations on this subject, as well as to the mode of assessing, &c.

The assessment for 1882 on personal property is \$9,666,272, tax \$144,994.08.

COUNTY MAPS.

Mr. Carpenter has not yet finished his contract for the complete set of maps or plats of the county, but those which have been furnished bid fair to be of great use towards a complete assessment.

There will be some thirty plats, numbered from 1 upwards, beginning at the southwest or Mason's Island as No. 1, and I respectfully recommend that each plat be lithographed before being bound in book form. The cost would be about \$300 for 100 copies of each plat, and owners of property and real-estate agents would, in all probability, buy enough of them to reimburse the District for the outlay.

The placing of them in the hands of parties interested would lead to the correction of errors in the subdivisions of property.

This expenditure would be borne by the balance of the \$3,000 appropriation for maps.

NEW DISTRICT OFFICES.

A new building, erected for all the needs of the District, is very desirable for the protection of the records and the proper manipulation of the different departments of the service.

I submit herewith an estimate of the expenses of this office for the fiscal year ending June 30, 1883.

Very respectfully,

ROB. P. DODGE,
Assessor, District of Columbia.

APPENDIX E 1.

ESTIMATES.

ASSESSOR'S OFFICE,
Washington, D. C., September 10, 1881.

GENTLEMEN: I have the honor to submit the following estimate for the year 1882-'83:

Assessor.....	\$3,000
Assistant assessor.....	1,800
Chief clerk.....	1,800
One clerk.....	1,600
Two clerks, at \$1,400 each.....	2,800
Four clerks, at \$1,200 each.....	4,800
One clerk.....	900
One messenger.....	600
Contingent expenses.....	700
	18,000
For detection of frauds upon the revenue.....	5,000
	23,000

If a new assessment is ordered next year, which I earnestly recommend, the force must be increased in some way in order to accomplish it.

Very respectfully,

ROB. P. DODGE,
Assessor.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

F.—REPORT OF THE INSPECTOR OF BUILDINGS.

OFFICE OF THE INSPECTOR OF BUILDINGS,
Washington, D. C., September, 1881.

GENTLEMEN: I have the honor herewith to transmit my annual report, covering the transactions of this office since my last report, commencing on July 1, 1880, together with recommendations and estimates for the fiscal year 1881-'82:

Tabular statement of permits issued for buildings, &c., from July 1, 1880, to June 30, 1881, inclusive.

No.	Description.	Value.
556	New brick dwellings and stores.....	\$1, 534, 140
355	Brick repairs and additions.....	150, 625
53	Brick stables (private).....	25, 250
3	Brick livery-stables.....	7, 300
5	Brick churches.....	32, 200
1	Brick market-house.....	15, 000
2	Brick school-houses (private).....	10, 750
1	Brick orphan asylum.....	25, 000
1	Brick car-house.....	10, 000
6	Brick office buildings.....	22, 825
15	Brick workshops.....	24, 310
50	Frame dwellings.....	34, 495
464	Frame repairs.....	47, 203
2	Frame stables.....	280
142	Frame wood-sheds.....	6, 017
21	Removals of frame houses.....	1, 670
2	Greenhouses.....	4, 300
3	Boat-houses.....	330
3	Ovens.....	275
84	Awnings.....	
23	Vaults (being 339 linear feet).....	
1, 792 permits, at a total value of.....		1, 951, 970

The total revenue for the twelve months amounts to \$3,237.

By reference to the above statement it will be seen that the total number of new buildings erected in the cities of Washington and Georgetown during the year is 623, and 57 frame houses in the county, as against 625 and 55, respectively, during the year previous.

The character and value of the dwellings shows the same marked improvement as that of last year.

There have been served 47 notices for defective structures, all of which have in most cases been readily complied with.

There have been made 42 condemnations of structures as dangerous to life and limb, and the buildings have either been taken down or made safe under the direction of this office. There have been entered 76 complaints of defective and dangerous building, all of which have been examined and the defects remedied. I would here call your attention to the great necessity for additional assistance in the inspection of buildings. At present there is but one assistant on outside work, and my

own time is mostly taken up in the office and in attending to the construction and repairs of District buildings. The building regulations make sufficient provision for proper construction, and under them the construction of buildings is greatly superior to what it was before they were established, but with at least 300 buildings, scattered over the entire city and county, in course of construction and repair during the building season, it is impossible for the office fully to examine and control the details of their construction.

There should be at least two more assistants, in order to properly inspect and control the work; and to be able to command the services of competent and experienced men, the salary should not be placed at less than \$1,200 per annum, which outlay, in my opinion, will well repay the public, not only in the strength of construction, but also as to safety against fire.

The building public are becoming more familiar with the requirements of the regulations, as shown in only 47 notices for violations having been served this year as against 103 the year previous.

The damages by the severe storm of June 27, while great as to the number of buildings, were, with a few exceptions, not individually serious, varying from \$25 to \$1,500 on private buildings, and principally from \$100 to \$200. There were damaged 175 private buildings, with a loss estimated at \$30,000; 6 public school buildings, at \$5,040; and City Hall, at \$1,900; or 182 buildings, at a total loss of \$36,940.

The accompanying map will show the course and extent of the storm. The damage cannot be charged to defective construction, as the most substantial buildings in the line of the storm shared the same fate as buildings of lighter construction.

DISTRICT BUILDINGS.

Public schools.

There have been repaired 85 school buildings, at an expenditure of \$14,987.46, apportioned in the seven divisions, as follows:

First division	\$2,767 78
Second division	1,223 65
Third division	1,624 87
Fourth division	1,122 02
Fifth division	910 40
Sixth division	1,133 65
Seventh division	4,379 10
Wages of foremen	632 00
Rent of wareroom and shops	144 00
Pay-rolls and items charged in general	1,049 99
Total	14,987 46

The appropriation for the year, being \$10,000 less than the year previous, was not sufficient to make all the needed repairs, and in several instances it was necessary to curtail the expenses as requested by the trustees in the several divisions in order to keep within the amount appropriated.

The appropriation for the year 1881-'82, being again reduced \$5,000, is inadequate, and will only allow such repairs as will make the building comfortable, and as the number of buildings is increasing and the exterior of several of the larger ones need repainting, the appropriation for the coming year should not be less than \$20,000.

There have been erected four public school-buildings, in accordance

with the act of June 4, 1880, appropriating \$100,000, divided as follows: Second division, \$45,000; seventh division, \$45,000; and for the sixth division (county), \$10,000.

The building in the second division was erected on square 446, on P street, between Sixth and Seventh streets, northwest, the land being the property of the District, and the expenditures made as follows:

Contract for building	\$44,000 00
Increasing foundation to stacks	70 00
Surveying lot	25 00
Printing specifications	9 73
Improving ventilations and building belfry	344 00
Windows in water-closets	24 00
Foreman's wages	516 00
Unexpended balance	44,988 73
	11 27
	45,000 00

The building in the seventh division was erected on the south end of square 359, bounded by Vermont avenue, Tenth, and U streets, northwest, and the expenditures made as follows:

For purchase of site	\$9,936 35
Contract for building	33,600 00
For printing specifications	11 31
For surveying lots	42 50
For extra depths in boiler-rooms	141 00
For enlarging coal vaults	167 20
For flooring the entire loft	170 00
For fire-proofing floors over boiler-rooms	65 00
For ornament on south pediment	34 50
For formen's wages	832 00
Unexpended balance	44,999 86
	14
	45,000 00

There was erected two buildings in the sixth division, a six-room building at Anacostia, and a two-room at Bladensburg road, but owing to the appropriation being limited, the two rooms on first floor of the Anacostia building were not finished.

The expenditures on the two buildings were made as follows:

Contract for Anacostia building	\$6,373 00
Printing specifications	7 98
Surveying sites	28 00
Site for Bladensburg school	500 00
Contract for the building	3,100 00
Deducted from final payment to contractors	10,008 98
	8 98
	10,000 00

The appropriations for the above four buildings being entirely exhausted in the purchase of sites and the erection of the buildings, it will be necessary to have an appropriation for inclosing the grounds, sodding, and paving, which is estimated to cost as follows:

For inclosing and improving grounds at P-street school	\$4,000 00
For inclosing and improving grounds at U-street school	4,610 95
For inclosing and improving grounds at Anacostia school	888 50
For inclosing and improving grounds at Bladensburg school	550 00
Also inclosing, &c., at the Force school, first division	2,410 00
	12,459 45

I would also again call your attention to the necessity (as a sanitary measure) of excavating and underpinning and finishing the interior of the east half of the Wallach building, which I estimate will cost about \$4,500.

The act of March 3, 1881, appropriates \$104,000 for the erection of four buildings, as follows: \$96,000 for purchase of sites and erection of two buildings in the second division, and \$8,000 for two in the sixth (county). The law required the plans for these buildings to be furnished by the Architect of the Capitol, and approved by the board of trustees of public schools.

The plans and specifications were accordingly placed in my hands for construction, and proposals were at once advertised for. The result was that the bids all exceeded the appropriation after deducting cost of sites, and the building committee of the school board therefore authorized me to omit the steam heating, as it was an appendage, and make some minor changes and readvertise, which was done, and the bids came within the appropriations, leaving a small margin for contingencies that will necessarily arise during the process of the construction.

My reason for referring to these buildings in this report is that I wish to call your attention to the necessity for an additional appropriation, in order to place these buildings in a condition to be occupied, and for which I estimate as follows:

Steam-heating two buildings in second division	\$11,000 00
Inclosing and improving grounds at Tenth and H street school	1,297 50
Inclosing and improving grounds at First and Massachusetts avenue	2,825 00
	15,122 50

The plans and specifications furnished for the two county schools resulted in bids far in excess of the appropriation, and the buildings were therefore reduced to one-story buildings, in place of two, by order of the building committee, which brought the second bidding within the amount available. These buildings will need water-closets and coal-houses, independent of inclosures and grading, which I estimate will cost \$400.

I have also estimated that it will require to inclose, terrace, and fit up grounds surrounding the new high-school building the sum of \$3,119.40.

Police stations.

The third, fourth, and eighth precinct station-houses, owned by the District, have been greatly improved and put in good condition during the past year; but the rented buildings are not in proper condition for the comfort of the officers or safety and comfort of the prisoners, the owners not being willing to spend the sum necessary. Those buildings have only received such minor interior repairs as were absolutely necessary to keep them in a sanitary condition. In view of the fact that only by having the buildings owned by the District can they be made properly arranged and adapted for the purpose, I would urge that as soon as practicable there be erected suitable buildings to take the place of the five rented stations. The amount expended for repairs to station-houses and police headquarters during the year through this office is \$1,177.50.

As the police court needs some extensive repairs, I would recommend that an appropriation of \$2,500 be asked for, for the next fiscal year, for the repairs of police stations, police headquarters, and police court.

Engine-houses.

The engine-houses of the District are, with the exception of Nos. 4 and 5, in a good state of repair. No. 4, with an expenditure of \$400 in

addition to the repairs recently done, will place it in a condition which will compare favorably with the other houses.

No. 5, in Georgetown, is in my opinion, not worth repairing, being in a dilapidated condition and unfit for the purpose.

I would therefore call your attention to the great necessity for a new building, and recommend that the old town-house on Bridge street, belonging to the District, be reconstructed for that purpose. Its position is well adapted and it can be made an engine-house at far less expense than building a new one on a new site.

The repairs to engine-houses done through this office amounts to \$416.65.

To put No. 4 in a proper condition and keep the others in good repair will require an appropriation of \$1,500.

Market-houses.

The market-houses now owned by the District have been put in a good state of repair during the year, the amount expended through this office being \$2,886.05, and it will but require an appropriation for the next fiscal year of \$1,000.

Workhouse and Washington Asylum.

The act of June 4, 1880, appropriated the sum of \$10,000 for the erection of the south wing to the workhouse; the building was continued upon the original plan, with the exception of strengthening the interior construction, and was built by contract for the sum of \$9,941.86 and \$22.60 for extra paving, leaving an unexpended balance of \$35.54.

The repairs done through this office to the Workhouse and Asylum amounts to but \$194.50, owing to most of the work of repairs having been done by convict labor under the supervision of the intendant.

In conclusion, permit me, gentlemen, to acknowledge the uniform confidence and courtesy which this department has received from you in all its transaction.

Very respectfully,

THOS. B. ENTWISLE,
Inspector of Buildings.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX F 1.

ESTIMATES.

OFFICE OF THE INSPECTOR OF BUILDINGS,
DISTRICT OF COLUMBIA,
Washington, September 9, 1881.

GENTLEMEN: I have the honor to transmit estimates for this office for the fiscal year 1882-'83 as follows:

Office expenses:

Salary of inspector of buildings	\$2,400 00
Salary of first assistant and draughtsman	1,700 00
Salary of second assistant (on school buildings)	1,200 00
Salary of third assistant	1,000 00
Salary of one messenger	480 00
Contingen expenses, including books, blanks, stationery, repairs to wagon, and miscellaneous items	500 00
	\$7,280 00

Repairs to market-houses	\$1,000 00
Repairs to police stations and police court	2,500 00
Repairs to work and alms house	1,000 00
Repairs to engine-houses	1,500 00
Repairs to school-houses	20,000 00
Excavating and underpinning east half of Wallach school	4,500 00
Inclosing and improving ground at Force school (coping, fences, sodding, and graveling)	2,410 00
Inclosing and improving grounds at P street and high school (coping, fences, sodding, and graveling)	7,119 40
Inclosing and improving grounds at Tenth street school (coping, sodding, and graveling)	4,610 95
Inclosing and improving grounds at First and Massachusetts avenue school (coping, fences, and sodding)	2,825 00
Steam-heating same	5,500 00
Inclosing and improving grounds at Tenth and H street school (coping, fences, and sodding)	1,297 50
Steam-heating same	5,500 00
Inclosing and improving grounds at Anacostia school	888 50
Inclosing and improving grounds at Bladensburg road school	550 00

Very respectfully,

THOS. B. ENTWISLE,
Inspector of Buildings.

HON. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

G.—REPORT OF THE FIRE COMMISSIONERS.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS,
DISTRICT OF COLUMBIA,
Washington, D. C., September 5, 1881.

GENTLEMEN: We have the honor to submit herewith the following statement of the transactions of the fire department of the District of Columbia for the fiscal year ending June 30, 1881, an estimate of the expenses of said department for the fiscal year ending June 30, 1883, and such suggestions and recommendations as are, in our opinion, essential to further increase the efficiency of the fire suppression service.

BUILDINGS.

The buildings and rooms occupied by the department are the same as at the time of the last report, and are as follows: office of Board of Commissioners and Chief Engineer, room 26, Columbia building; central office fire-alarm telegraph, corner Pennsylvania avenue and Fourth-and-a-half street, northwest; six fire-engine houses and two truck-houses. The chief engineer in his accompanying report again calls attention to the necessity for the erection of new houses for No. 4 and No. 5 engine companies, and the organization of a new engine company in the northern section of the city. His recommendations in that connection are based upon valid grounds and are heartily concurred in by the board. In regard to No. 5 house, we earnestly recommend that unless it can be sold speedily for enough to build a new house in a more suitable location, as authorized by Congress, that you will press upon that body at the next session the necessity for such further legislation as may be needed to enable you to build the new engine-house west of Rock Creek, at the earliest possible date. If the new house for No. 4 company is erected, the present structure can be utilized for other public purposes, as suggested by the chief engineer in his report.

APPARATUS.

With the exception of the three Amoskeag engines and the old truck, the apparatus is in good condition. The old truck will be rebuilt during the current year, and the recommendations of the chief that the three engines named be exchanged for new ones is approved. These engines have been in service a long time; they necessarily often need repair and should be replaced by new ones as a matter of economy as well as safety.

HORSES.

The horses purchased during the past year were good ones, but from various causes we have now fewer animals than are essential for the proper conduct of that branch of the service. To prevent creating a deficiency, an effort will be made to get through the current year with the amount appropriated, but the larger sum asked next year will be necessary and should be granted.

FIRE-ALARM TELEGRAPH AND TELEPHONE SERVICE.

This branch of the service is in excellent condition, but still needs certain additions and improvements, as will be seen by the report of the superintendent. His recommendations for new boxes and increased help are approved, as they are absolutely necessary.

FIRE-PLUGS.

Special attention is invited to that portion of the chief engineer's report which treats of the water supply. His suggestions in regard to the erection of new and altering of old fire-plugs, the increase in the size of mains, and the construction of cisterns are timely and should receive careful consideration.

EXPENDITURES AND ESTIMATES.

The books of the auditor of the District of Columbia show the expenditures on account of the fire department for the fiscal year ending June 30, 1881, to have aggregated \$106,262.97, which leaves a small deficiency.

The estimates of the chief engineer and superintendent of fire-alarm telegraph for the next fiscal year aggregate \$113,370.00. This is a larger amount than was allowed last year, but the figures represent exactly the sum needed and should be allowed in order to avoid a deficiency. In addition to the ordinary expenses they estimate for certain much needed improvements and additions, and with the knowledge that the present department is numerically too small to cope with an extensive fire, or two large ones occurring at the same time, we would fail in our duty to the community if we did not second their reasonable requests. According to the last report of the assessor and treasurer, the buildings in the District are assessed at nearly \$100,000,000; add to this the money value of the furniture, merchandise, and other personal property contained in them, and it will hardly need the testimony of the expert fireman to prove that the present force is totally inadequate for the proper protection of such vast interests. It is true that during the past year the losses have been exceptionally small, but it is also true that we are liable at any time to have an extensive conflagration such as has visited other cities. There is always a possibility of a large fire, and we should be prepared to master it if it should unfortunately occur. It is

certainly better to expend a small additional sum per annum in strengthening the department than to be compelled to record a loss of property amounting to hundreds of thousands of dollars.

DEFICIENCY.

For the first time this board is compelled to ask for an appropriation to cover a deficiency, which is placed in the estimate at \$3,800. This is through no fault of ours, but is the result of entirely unforeseen causes. As is known, the estimates and appropriations are made more than one year in advance and are in detail. It so happened that the estimates for feed for the current year were based upon the prices paid the preceding year; but an unexpected rise in the price of forage leaves but money enough to the credit of that particular fund to purchase supplies for six or seven months. For this reason it is necessary that the sum asked should be appropriated to supply the deficiency and be made available at once.

DISABLED FIREMEN.

We again call your attention to the propriety of making some suitable provision for the relief of men disabled in the fire department. The service is attended with many risks by accident and exposure, and it is only just that when men are thus broken in health and incapacitated for physical labor, they should be retired to some lighter duty under the government, or placed on the retired list with a moderate salary. There are now several men on our rolls who are really unable to perform the active duties of the position, but they are retained because it would be a great hardship to discharge them after they have become thus broken down in health in the performance of duty.

PERSONNEL OF THE FORCE.

The efficiency of the District fire department is best shown by comparing its strength, the value of property to be protected, and the loss by fire, with the same statistics in other cities. The showing thus made is very favorable to this department. Much of its success in fighting fire is due to the personal character of the force, the result of careful selection of the men, and their appointment during good behavior. Charges against the men for serious breach of the regulations are comparatively infrequent. The executive ability of Chief Engineer Cronin has brought the discipline of the force to a point as nearly approaching military strictness as is advisable with a civil organization, while his good judgment and varied experience in the suppression of fires enables him to direct their operations with a gratifying degree of success. He is ably seconded by his assistant, Col. W. O. Drew. Their efforts would not, however, always avail if it was not for the saving of valuable time by the prompt signaling of alarms and the prompt movement of the force in response. The fire-alarm telegraph, under the intelligent supervision of Superintendent Miles, works admirably, and has been the means of saving large amounts of property. The system should be extended to keep pace with the growth of the city.

We are, with great respect, gentlemen, your obedient servants,

W. R. COLLINS,
PETER F. BACON,
THOMAS L. HUME,
Fire Commissioners.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

62 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Estimates for expenses of fire department for year ending June 30, 1883.

SALARIES.

Two commissioners, at \$200.....	\$400 00
One commissioner and secretary, at \$400	400 00
One chief engineer, at \$1,800.....	1,800 00
One assistant chief engineer, at \$1,400.....	1,400 00
Eight foremen, at \$1,000.....	8,000 00
Six engineers, at \$1,000.....	6,000 00
Eight hostlers, at \$800.....	6,400 00
Six firemen, at \$800.....	4,800 00
Two tillermen, at \$800.....	1,600 00
Fifty-four privates, at \$720.....	38,880 00
Three watchmen, at \$720.....	2,160 00
One superintendent fire alarm, at \$1,500.....	1,500 00
Two operators fire alarm, at \$1,200	2,400 00

75,740 00

MISCELLANEOUS.

Repairs to apparatus.....	4,000 00
Repairs to houses (incidental)	1,500 00
Forage	7,000 00
Purchase of hose	3,000 00
Fuel.....	1,500 00
Purchase of horses	2,500 00
General and miscellaneous supplies of all kinds.....	13,000 00
Exchanging three Amoskeag engines for new	9,000 00
Purchase of lots and building and furnishing houses for No. 4 and No. 5 companies.....	20,000 00
Contingent expenses and supplies fire-alarm telegraph.....	5,130 00

EXTRAORDINARY.

Purchase of lot and erection and furnishing of house in northern section of city.....	10,000 00
Salaries for new company:	
One foreman	1,000 00
One engineer	1,000 00
One fireman.....	800 00
One hostler	800 00
Six privates.....	4,320 00
Deficiency for years ending June 30, 1881, and June 30, 1882:	
For feed and miscellaneous, year ending June 30, 1881	800 00
For feed and miscellaneous, year ending June 30, 1882	3,000 00
Estimates for extraordinary expenses of fire-alarm telegraph for year ending June 30, 1883:	
Seventy-five additional boxes and putting up same	15,000 00
Salary additional operator.....	1,200 00
Salary two repairmen, at \$720	1,440 00

APPENDIX G 1.

REPORT OF THE CHIEF ENGINEER.

OFFICE OF CHIEF ENGINEER, FIRE DEPARTMENT,
DISTRICT OF COLUMBIA,
Washington, September 8, 1881.

GENTLEMEN: I have the honor to submit herewith a report of the workings of the fire department from July 1, 1880, to June 30, 1881, a detailed statement of the number of fires during that period, a roster of members, an inventory of the property of each company, estimates for the expenses of the department for the fiscal year ending June 30, 1883, and certain suggestions and recommendations that are, in my judgment, necessary to further increase its efficiency.

MEMBERSHIP.

The department as at present constituted is composed of 95 officers and members, divided as follows: Three commissioners, one chief engineer, one assistant chief engineer, eight foremen, six engineers, two tillermen, six firemen, eight hostlers, fifty-four privates, three watchmen, one superintendent of fire-alarm telegraph, two operators of fire-alarm telegraph.

HOUSES.

The houses are eight in number, and six of them are in good condition, and will only need the usual incidental repairs. No. 4, located on Virginia avenue, between Fourth-and-a-half and Sixth streets southwest, which was never fitted for the purpose, either by location or construction, should be diverted to some other purpose, and a new and improved house erected on a more suitable site. The rear portion of the property on which it is at present located is used as a stable for all the horses (other than fire department) belonging to the District, under the control of the superintendent of property, and it is suggested the building may be used by that branch of the service as a storehouse, or together with the lot be sold, and the proceeds applied toward the erection of the new house. The house of No. 5 company, located on High near Bridge street, West Washington, is not only very dilapidated, but absolutely unsafe. During the last session of Congress a bill was passed authorizing the sale of certain District property in Georgetown, and directing that the proceeds therefrom should be applied to the purchase of a site, and the erection and furnishing of a new house for No. 5 company. In accordance with the terms of the act, the property was offered at public auction, but the Commissioners of the District deeming the amounts bid too small, the sale was not consummated, and as a consequence the company are still in their old tumble-down and totally inadequate quarters. In view of this fact, I again urge that an appropriation be made which shall be available at once for this purpose. No. 5 is the only company located in West Washington, and the people of that portion of the District have a right to demand that it shall be properly accommodated.

As has been stated in previous reports, a new house—and company—is an absolute necessity in the northern section of the city, and I most respectfully urge that the proper steps for the erection of one be taken immediately.

APPARATUS.

The apparatus on hand consists of eight engines, eight hose-carriages, three hook-and-ladder trucks, and one fuel wagon. Five of the engines are in good and three in fair order. The hose-carriages are all in good condition, and two of the trucks, with ordinary repairs, will last for several years. The fuel wagon is new. The three Amoskeag engines, rated as fair, have been in service since the organization of the department, fifteen years ago, and, as a matter of economy as well as safety, I earnestly renew my recommendation of last year, that they be exchanged for new ones. The third truck is very much out of repair, but will be rebuilt during the year, an appropriation having been made for that purpose.

HOSE.

There is now in the department 12,600 feet of fabric hose in good, 1,300 feet in fair, and 3,500 feet in bad or unserviceable condition.

There are also 400 feet of worn-out leather hose. As the average duration of hose is between three and four years, and as it is necessary there should be no lack of this article, we are required to purchase each year a sufficient quantity to keep the companies well supplied, and also to make good any extraordinary deficiency which may occur.

HORSES.

There are now in the department thirty-five horses, of which thirty-two are in active service. During the year eight worn-out condemned animals were exchanged for three good ones, and eight new ones were purchased. On account of the severe weather and heavy snow in December, 1880, it became necessary to secure additional horses, and accordingly eight were hired for a period of over a month. During that time they were, of course, housed and fed in the engine-houses, and as a consequence the feed item, for which the original appropriation proved to be too small, was considerably increased. For this and for the hire of the animals, paid out of the very small contingent fund, a deficiency appropriation is asked. The usual appropriation for the purchase of new horses is asked, as it is absolutely necessary that there should not only be a full quota of serviceable animals to each company, but also a fair supply of extra ones for use in the emergencies which are so sure to occur in this service.

WATER SUPPLY.

Without a proper and ample supply of water the best drilled and equipped department in the world is powerless, and I again call your attention to the fact that, in the event of a large fire in the business section of the city, the water supply or water fixtures are not sufficient to work the full force of the department. This is a most important subject, and while in the past the city has been so fortunate as to avoid a large conflagration, there can be no guarantee of continued immunity in that direction. Buildings, large, costly, and imposing, are being erected at the rate of over \$1,000,000 per annum, but neither the fire nor water service is permitted to keep pace with individual progress. As a consequence there is continuous danger of heavy losses, which could and should be averted by sufficient expenditures for the proper safeguards against fires, which every property holder has a right to expect. As I stated in my last report, it is useless to ask for the erection of additional fire-plugs along the line of the 4 or 6-inch water mains, for those now upon such lines cannot supply sufficient water for several engines working at a high pressure. For this reason I again urge the laying of larger mains, and the construction of a number of new cisterns in various sections of the city. The cisterns can be constructed at comparatively small cost, and the advantages to be derived in case of need will be great. In addition—and this should be done at once—all the old 9-inch outlet plugs should be changed to 10-inch, as this would insure uniformity and in many instances secure a larger flow of water, and also save time, that important factor at fires. If there be a special point in the District which need, attention in this matter of water supply it is in the vicinity of the Government Printing Office, a building which, in addition to the hosts of persons who are employed there day and night, contains so much valuable property. A large portion of this building is old, illy constructed, and, although crowded with inflammable material, was built without any regard to safety from fire. In its vicinity there are but few plugs, and they are on small mains. I beg that a 12 or 20

inch main be placed around the building, additional plugs erected, and that at least two cisterns be constructed in that locality, for besides the Printing Office there are in that neighborhood several hundred buildings erected in rows, many of them without even brick partition walls, and all liable to rapid destruction in the event of a fire without a full supply of water.

FIRE-ESCAPES.

Under the existing building regulations, which are supposed to have all the force and effect of law, the inspector of buildings is required to inspect all buildings "occupied as a hotel, boarding or lodging house, factory, mill or manufactory, or for offices or workshops in which persons are employed above the second story, and if in his opinion such building is not provided with proper facilities for the escape of persons in case of fire, he shall immediately serve a notice in writing upon the owner or owners, agent or other party or parties having an interest in said building, requiring the necessary additional facilities to be provided without delay"; said notice is subject to an appeal provided by the regulations.

I regret to say this rule has not been generally observed, and that, with but few exceptions, the large buildings are without the necessary means for escape in the event of a fire. I urge that stringent measures be adopted to enforce a proper compliance with this very essential portion of the law. I renew my recommendation of last year, that in addition to fire-escapes on all the hotels and government buildings and places of amusement in the city, iron ladders reaching from the ground to the roof be erected and kept in position at all times, thus providing a mode of reaching or escaping from the roof in time of fire. Such ladders could be placed against inside or court-yard walls of the public buildings, and in the others suitable places could be found so as not to mar the appearance of the building. I notice that many of the merchants have been permitted to erect upon the tops of their buildings large sign-boards, mostly of wood. This is a most dangerous practice, for in the event of a large fire they are liable to be lifted by the heat and in a burning condition carried squares distant, to the imminent danger of other property. Further than this, in the business portion of the city all large mercantile houses should be furnished with iron shutters.

FIRES AND LOSSES.

An accompanying table, marked A, shows that during the year ending June 30, 1881, there were 107 alarms, of which 97 were for actual fires, 2 chimneys on fire, and 8 false alarms. The actual fires involved an alleged loss of \$38,920, with an insurance of \$28,700. Table B shows the number of fires and the amount of losses from the organization of the department to date. By reference to it, it will be seen that the losses for 1881 were \$94,530, less than for 1880, and \$76,173, less than the average for the past ten years.

CONCLUSION.

During the year the conduct of the men has been gratifying, the breaches of discipline few, and attention to duty, noticeably on the fire ground, all that could be expected. In conclusion, I beg leave to return thanks to Assistant Chief Engineer Col. Wm. O. Drew for his valuable co-operation, to the Commissioners of the District of Columbia, the

Major and superintendent and members of the Metropolitan police, the water registrar, superintendent of fire-alarm telegraph, and to your honorable body, for the willing aid each in their respective capacities have rendered me in the discharge of the important duties intrusted to me.

Very respectfully,

MARTIN CRONIN,
Chief Engineer.

The BOARD OF FIRE COMMISSIONERS,
District of Columbia.

Estimates for fire department for year ending June 30, 1883.

SALARIES.

Two commissioners, at \$200	\$400 00
One commissioner and secretary, at \$400	400 00
One chief engineer	1,800 00
One assistant chief engineer	1,400 00
Eight foremen, at \$1,000	8,000 00
Six engineers, at \$1,000	6,000 00
Eight hostlers, at \$800	6,400 00
Six firemen, at \$800	4,800 00
Two tillermen, at \$800	1,600 00
Fifty-four privates, at \$720	38,880 00
Three watchmen, at \$720	2,160 00
	71,840 00

MISCELLANEOUS.

Repairs to apparatus	\$4,000 00
Repairs to houses (incidental)	1,500 00
Forage	7,000 00
Hose	3,000 00
Fuel	1,500 00
Horses	2,500 00
Miscellaneous expenses and supplies of all kinds	13,000 00
	32,500 00

EXTRAORDINARY ESTIMATE.

Exchanging three Amoskeag engines	\$9,000 00
Purchase of lots and building and furnishing houses for No. 4 and No. 5 companies	20,000 00
Purchase of lot and erection of house in northern section of city	10,000 00
Salaries of officers and men for new company in northern section of city ...	7,920 00
	46,920 00

DEFICIENCY ESTIMATES.

For forage and miscellaneons for year ending June 30, 1881	\$800 00
For forage and miscellaneons for year ending June 30, 1882	3,000 00
	3,800 00

APPENDIX G 2.

INVENTORY OF COMPANIES.

Inventory of stock and fixtures of Engine Company No. 1, up to July 1, 1881.

MARTIN CRONIN, Esq.,

Chief Engineer District of Columbia Fire Department :

SIR: I most respectfully submit the following list of property of No. 1 Engine Company.

JOS. PARRIS, *Foreman.*

One two-story brick house, with hose tower and stable attached, located on K street, between Sixteenth and Seventeenth streets, northwest.

SITTING-ROOM.

- | | |
|------------------------|--------------------------|
| 1 writing-desk. | 1 checker-board. |
| 1 stove and pipe. | 2 rugs. |
| 1 carpet. | 1 coal-hod. |
| 1 looking-glass. | 1 floor-mat. |
| 1 clock. | 18 yards of linolia. |
| 1 table and cover. | 1 old sofa. |
| 4 department pictures. | 1 chandelier and globes. |
| 1 small round table. | 6 arm-chairs. |
| 1 book-case. | |

BED-ROOM.

- | | |
|-----------------------------------|-----------------------------------|
| 1 carpet. | 10 feather pillows. |
| 10 iron bedsteads. | 1 alarm-gong. |
| 14 spittoons. | 1 door-mat. |
| 1 dust-brush and pan. | 1 feather duster. |
| 80 old bed-blankets. | 2 dust-brushes, long handle. |
| 10 old plain chairs. | 1 dust-brush. |
| 25 sheets. | 1 stair-carpet. |
| 25 pillow-slips. | 1 looking-glass in bath-room. |
| 10 towels. | 1 piece of oilcloth in bath-room. |
| 20 white bedspreads. | 1 comb and brush. |
| 10 new shuck and hair mattresses. | 1 chandelier and globes. |
| 3 old spreads. | |

ENGINE DEPARTMENT.

- | | |
|--|-----------------------|
| 1 second-class Clapp & Jones steam-engine, complete and in fair condition. | 1 cold-chisel. |
| 2 lamps. | 1 poker. |
| 2 monkey-wrenches. | 1 Bashor coil-heater. |
| 1 screw-jack. | 1 vise. |
| 3 oil-cans. | 5 tons splint coal. |
| 2 new canvas suction sleeves. | 2 tons heater coal. |
| 1 shovel. | 2 coal-hods. |
| 6 assorted files. | 4 spanners. |

ADJOINING ROOM.

- | | |
|------------------------|-----------------------|
| 2 arm-chairs. | 3 spittoons. |
| 1 looking-glass. | 3 old window-shades. |
| 1 coal-hod. | 1 old pine-table. |
| 4 department pictures. | 1 stove and pipe. |
| 3 door-mats. | 1 coal shovel. |
| 1 telephone. | 1 old comb and brush. |

HOSE-CARRIAGE DEPARTMENT.

- | | |
|--|-----------------------------|
| 1 hose-carriage, complete. | 1 new reflector. |
| 1 gum bucket. | 1 old reflector. |
| 2, 200 feet of canvas hose, in good condition. | 1 extra hose-carriage pole. |
| 1, 450 feet not, reliable. | 2 Jones' couplings. |
| 100 feet of life-line. | 1 pipe-holder. |
| 100 feet of picket rope. | 2 brass play-pipes. |
| 2 Johnson pumps. | 1 prunty cut-off nozzle. |
| 1 smoke respirator. | 1 prunty strap. |
| | 6 plain nozzles. |

HOSTLER DEPARTMENT.

- | | |
|--|--|
| 3 horses, in good condition. | 1 clipping machine, in good condition. |
| 1 horse, in fair condition. | 2 clipping machines, in bad condition. |
| 4 sets of swinging harness, in good condition. | 1 pair of scissors. |
| 4 sets of plain, in fair condition. | 2 old clipping machines, combs. |
| 1 Dutch collar. | 2 curry-combs. |
| 4 extra set reins. | 2 horse-brushes. |
| 4 extra old collars. | 2 mane-brushes. |
| 2 pitchforks. | 2 mane-combs. |
| 1 scoop-shovel. | 2 pad riding saddles. |
| 2 old brooms. | 4 hand-holds. |
| | 4 hitching-straps. |

3 head-halters.
 4 horse-blankets, in good condition.
 2 old horse-blankets, in bad condition.
 4 horse-buckets.
 4 extra pole-straps.
 2 sweat-scrapers.

20 bushels of oats.
 50 lbs. of hay.
 25 lbs. of straw.
 1 old hay-cutter.
 1½ bushels flaxseed, meal.
 1 bucket.

STOCK ON HAND IN STORE-HOUSE.

24 corn brooms.
 2 dust-brushes.
 1 stove-brush.
 2 stove-shovels.
 1 dirt-shovel.
 3 scrub-brushes.
 2 cotton mops.
 1 feather duster.
 2 papers lampblack.
 ½ gallon of raw oil.
 2 new pitchforks.
 5 pounds of oxalic acid.
 6 boxes of shoe-blackening.
 5 pounds of glue.
 5 pounds of vaseline.
 15 pounds kalsomine.
 3 chandelier globes, lamp globes.
 1 quart hard-oil finish.
 1 small pickax.
 3 old steam-gauges.
 3 horse-brushes.
 4 curry-combs.
 1 scoop-shovel.
 2 new bridles, bits.
 1 reflector.
 2 Oyston spray nozzles.
 2 extra reducers.
 2 Jones reducers.
 15 pounds white lead.
 2 cans of harness-oil.
 2 cans of harness-dress.
 6 screw-eyes.

2 cans of hoof ointment.
 1 soldering-iron.
 1 bar of solder.
 1 watering-pot.
 1 pair of tinner's snips.
 1 pound of copper rivets.
 1 hand-saw.
 2 extra whips.
 12 bullwinkel snaps.
 ½ gross of matches.
 24 papers of tripoli.
 24 sheets emery cloth.
 24 sheets of crocus cloth.
 6 sheets of sand-paper.
 20 pounds of brown soap.
 4 bars of castile soap.
 20 pounds of assorted nails.
 6 pieces of harness soap.
 3 gallons of tincture of arnica.
 10 pounds of sponge.
 10 pounds of cotton waste.
 10 chamois skins.
 ½ gallon of castor oil.
 6 lamp-wicks.
 2 horse-buckets.
 1 brick-hammer.
 6 hame-straps.
 1 stable-broom.
 20 pounds of axle-grease.
 6 old paint-brushes.
 ½ gallon turpentine.
 2 kalsomine brushes.

MISCELLANEOUS.

300 bricks.
 175 feet of joist.
 100 laths.
 2 trussels.
 1 wheelbarrow.
 1 old shovel.
 ½ barrel of hose-oil.
 1 old hose-oiler.
 6 old shuck and hair mattresses.
 6 old oil-cans.
 Lot of old linolia.

116 feet ladder.
 2 step-ladders.
 2 old iron bedsteads.
 2 old play-pipes.
 3 old plain nozzles.
 6 old files.
 1 old hose-carriage.
 1 jack; lot of old rope.
 ½ barrel of Portland cement.
 ½ barrel of plaster Paris.
 1 old bench.

Name.	Rank.	Age.	Occupation.	Residence.
Jos. Parris	Foreman			
James Moriarty	Engineer	45	Plasterer	1829 K street, northwest.
William B. Read	Fireman	41	Machinist	2013 K street, northwest.
Samuel E. Edwards	Hostler	37	Plumber	723 Twenty-third street, northwest.
James F. Edwards	Private	35	Blacksmith	1530 Q street, northwest.
Jos. O. Guy	do	47	Carpenter	1606 Sixteenth street, northwest.
James T. Adams	do	32	do	744 Seventh street, southeast.
		30	Clerk	1018 Twenty-second street, northwest.
Frank J. Snyder	do			
John A. Welsh	do	37	Laborer	1014 Sixteenth street, northwest.
Jos. Daniels	do	24	do	405 Second street, northeast.
		37	Jeweler	316 K street, northeast.

Respectfully submitted.

MARTIN CRONIN, Esq.,
 Chief Engineer Fire Department, District of Columbia.

JOS. PARRIS, Foreman.

Inventory of Engine Company No. 2.

WASHINGTON, D. C., 1881.

SIR: I most respectfully submit the following list of property of No. 2 Engine Company:

One two-story engine house, with hose tower attached, located on D street, near Twelfth street, northwest.

ENGINE DEPARTMENT.

1 Clapp & Jones double-pump engine.	1 hand hammer.
1 cold heater attached to engine.	2 cold-chisels.
1 Pruentz relief valve attached to engine.	1 bucket axle grease.
2 spring-bottom oilers.	4 assorted files.
2 spanners.	1 soldering iron.
2 monkey-wrenches.	1 pair keys pipe tongs.
1 screw-socket wrench.	1 screw-jack.
2 socket wrenches.	1 cord of pine wood.
1 five gallon machine-oil can.	2 tons of engine coal.
1 five gallon coal-oil can.	2 pounds of Selden engine packing.
3 gallons of machine oil.	25 pounds of cotton-waste.
2 gallons of coal oil.	8 pounds of whiting.
1 gallon machine-oil can.	2 pounds of oxalic acid.
20 sheets of emery cloth.	18 papers of tripoli.
2 pairs of wire pliers.	1 extra engine pole.
1 vise and bench.	2 hand lanterns for engine.

HOSE DEPARTMENT.

2,000 feet of Paragon canvas, in good order.	6 nozzles.
200 feet of Paragon hose (wants cutting and coupling removed).	2 spray nozzles.
200 feet of old Acme canvas hose for fire service.	1 Pruentz patent cut-off nozzle.
1 hose carriage, in good condition.	4 brass play pipes.
2 long-handle axes.	1 pair of carriage shafts.
3 short-handle axes.	2 Johnson pumps.
3 ladder-straps.	2 smoke respirators.
2 Jones couplings.	4 hand lanterns (2 of them old.)
2 Jones couplings unfit for service.	1 reflecting lantern.
2 brass reducers.	100 feet of picket line.
1 T. brass connection.	100 feet of cotton life line.
2 gum pipes.	2 gum buckets.
1 brass pipe, leather covered.	1 extra carriage pole.
	1 carriage jack.
	2 extra carriage wheels.
	2 pipe holders.

HOSTLER'S DEPARTMENT.

2 bay and 2 gray horses.	1 peck of flax-seed meal.
2 sets of swinging harness.	$\frac{1}{2}$ bushel of coarse salt.
2 sets of double harness in fair condition.	4 good horse blankets.
4 extra horse bits.	4 old horse blankets.
3 old collars.	4 summer horse covers.
1 Dutch collar.	4 horse hoods, new.
4 extra traces.	4 horse hoods, old.
8 halter stems.	1 hay cutting box.
2 pad riding saddles.	1 feed bin.
2 new clipping-machines.	2 pitchforks.
1 old clipping-machine.	1 half-peck measure.
4 curry combs.	2 knee pads.
4 corn brushes.	8 hitching straps.
4 hair horse-brushes.	2 dozen assorted straps.
2 whips.	2 sets of lead bars.
1 old bridle.	2 horse buckets.
1 harness punch.	2 surcingles.
4 collar pads, old.	2 stable brooms.
2 sets of pole straps.	2 shovels.
2 old sets of breast straps.	1 feed sieve.
40 bushels of oats.	4 iron horse troughs.
1,000 pounds of straw.	4 iron trace chains.
900 pounds of hay.	1 swingletree.
6 bushels of mixed feed.	4 patent boss springs for traces.
	1 horse scraper.

HOUSE DEPARTMENT.

12 yards of stair oil cloth.	30 yards of old linen crash.
12 iron bedsteads.	12 yards of stair carpet.
10 hair mattresses.	16 stair rods.
10 shuck mattresses.	12 cuspidors (spittoons).
11 feather pillows.	2 clocks.
30 bedspreads.	18 arm chairs.
30 blankets.	8 arm chairs, old.
24 pillow slips.	1 sofa.
24 sheets.	2 looking glasses.
1 dozen towels.	3 stoves and pipes.
1 sitting-room carpet.	1 center table.
1 sleeping-room carpet, old and badly worn.	1 secretary.
	2 coal hods.

MISCELLANEOUS.

25 feet of garden hose, old.	1/2 gross of matches.
3 extra glass water gauges.	2 scrub brushes.
1 pair of shears.	6 floor mops..
6 chamois skins	4 paint brushes.
1 pound of sponge.	2 whitewash brushes.
15 pounds of castile soap.	6 lamp wicks.
12 cakes of glycerine soap.	1 water cooler.
20 bars of brown soap.	1 tin water boiler.
6 papers of stove polish.	1 coffee boiler.
6 corn brooms.	2 tin cups.
1 jack plane.	1 crosscut saw.
3 pounds of nails.	1 hatchet.
1 backgammon board.	3 door mats.
2 pokers.	1 dozen lights of glass.
2 stove brushes.	1 pound of putty.
1 water pot.	3 tons of stove coal.
2 hair combs.	1 dust pan.
2 hair brushes.	2 feather dusters.
2 wash stands.	2 stove shovels.
8 window shades.	1 bath tub.
1 Bible.	1 blank roll book.
1 alarm book.	2 step ladders.
1 day book.	1 billiard table and pool balls.
1 requisition book.	1 alarm gong.
1 book-case containing 80 bound books and 179 unbound.	

List of members of No. 2 Engine Company.

Name.	Rank.	Age.	Occupation.	Residence.
William A. Shedd.....	Foreman.....	40	Machinist.....	311 Fourteenth street, northwest.
Samuel Dawes.....	Engineer.....	42	Carpenter.....	614 H street, northwest.
Frank Lewis.....	Fireman.....	41	Painter.....	332 C street, northeast.
James Norris.....	Hostler.....	37	Laborer.....	920 Twenty-sixth street, northwest.
Charles Mead.....	Private.....	40	Carpenter.....	467 I street, northwest.
Joseph Lemman.....	do.....	25	Blacksmith.....	523 Eleventh street, northwest.
John Maddox.....	do.....	43	Wheelwright.....	912 F street, northwest.
William Belt.....	do.....	33	Carpenter.....	912 F street, northwest.
Frank Wagner.....	do.....	38	Butcher.....	1354 D street, northwest.
William Mahoney.....	Extra private...	33	Laborer.....	149 Fayette street, Georgetown.

Respectfully submitted.

MARTIN CRONIN, Esq.,

*Chief Engineer, District of Columbia Fire Department.*WM. A. SHEDD,
Foreman No. 2 Engine Company.

Inventory of Engine Company No. 3.

I respectfully submit the following inventory of property in charge of No. 3 Engine Company:

ENGINEER'S DEPARTMENT.

1 second-class U-tank Amoskeag engine.	3 old suction.
1 Prunty's patent relief-valve.	1 short goose-neck.
1 Owen's patent hose-connection.	1 set lead bars.
20 feet of new suction.	1 hand-drill.
1 pair shears.	2 spanners for engine.
5 old piles.	1 Walton heater in working order.
5 oil-cans.	3 tons splint coal.
2 extra wheels.	2 tons heater coal.
1 vise and bench.	1 cord sawed and split wood.
2 chamois skins.	1 old coal-hod.
20 feet of steam-hose.	1 fuel basket.
7 assorted wrenches.	2 old shovels.
1 fire-shovel.	1 small ax.
1 poker.	1 broom.
5 squirt-cans.	1 bucket of axle-grease.
1 feather-duster.	$\frac{1}{2}$ gallon castor oil.
2 gallons lard-oil.	1 pound tallow.
2 sheet-iron fenders, for wheels.	1 piece of sponge.
1 drip-pan, for engine.	1 flue-cleaner.
1 jack-screw.	1 barrel coal oil.
10 pounds cotton-waste.	$\frac{1}{2}$ gallon machine oil.
1 large S wrench.	1 water-bucket.
2 lanterns, for engine.	1 pair dividers.
1 pair extension tongues.	

HOSE-CARRIAGE DEPARTMENT.

1 two-horse hose carriage.	1 plug reducer.
1 Nealy respirator.	2 brass play-pipes.
2 Johnson pumps.	1 water-cooler.
1 fire-ax.	4 gum spittoons.
2 cotton play-pipes.	1 step-ladder.
1 Prunty's relief-nozzle.	1 16-foot ladder.
2 spray nozzles.	1 clock.
2 extra nozzles.	4 curtains.
50 feet small rope.	1 old stove and pipes.
100 feet street rope.	50 feet of street hose.
1 ladder strap.	3 door mats.
2 hose-jackets.	2 floor brushes.
1 jack-screw.	1 large gong.
2 lanterns.	2 cotton mops.
1 water-bucket.	2 mop-handles.
2 Baltimore reducers.	1 chamois skin.
1 carriage apron.	2 sponges.

HOSE DEPARTMENT.

2,150 feet of paragon hose, new.	200 feet of leather hose, worthless.
2,100 feet of 2-ply Acme hose, old.	

HOSTLER'S DEPARTMENT.

4 horses.	2 sets of old harness.
3 feed-bins.	4 linen horse-covers.
10 bushels oats.	4 new horse-blankets.
400 pounds hay.	4 old horse-blankets.
100 pounds straw.	4 old neck-blankets.
1 bushel bran.	1 breast-collar.
1 bushel meal.	4 extra pole-straps.
$\frac{1}{2}$ bushel flaxseed meal.	2 horse-brushes.
4 sets of harness.	2 curry-combs.
4 bridles.	2 old collars.

2 old whips.
4 patent pole-snaps.
4 halter-straps.
2 horse-buckets.
4 old hitching-straps.
1 pair clippers, new.
1 pair clippers, worthless.
2 horse-scrapers.
1 mane-brush.
1 stable shovel.
1 syringe.

1 harness-punch.
1 watering-pot.
1 riding-saddle.
1 wheelbarrow.
1 pitchfork.
2 pieces soap.
2 pieces sponge.
1 can harness dressing.
1 pair clipping-shears.
1 extra bridle.

HOUSE DEPARTMENT.

11 iron bedsteads.
10 shuck mattresses.
12 hair mattresses.
11 feather pillows.
2 hair pillows.
11 white spreads.
27 white blankets.
33 bed-sheets.
22 pillow-cases.
7 towels.
2 new towels.
12 new sheets.
9 new pillow-cases.
3 old carpets.
2 old stair-carpets.
16 arm-chairs.
2 fancy chairs.
1 office-chair.
2 large tables.
2 center tables.
12 cuspidors.
8 gum spittoons.
5 china spittoons.
1 clock.
2 carpet rugs.

4 door-mats.
10 curtains.
1 writing-desk.
1 piece oil-cloth.
1 looking-glass.
1 hair brush and comb.
1 water-bucket.
1 feather duster.
1 dust-pan.
1 dust-brush.
1 broom.
1 fire-board.
1 chamois skin.
1 new stove and pipes.
1 scrubbing-brush.
1 lot books and paper.
1 monthly-report book.
1 requisition book.
1 note book.
1 lot writing-paper.
1 picture of chiefs' convention.
4 pictures of Patent Office fire.
1 large alarm bell with striking apparatus attached.
1 set of rules.

STORE ROOM.

1 wall brush.
3 new chamois skins.
2 gongs.
1 blacking-brush.
1 pound sponge.
 $\frac{1}{2}$ gross matches.
 $\frac{1}{2}$ pound acid.
 $\frac{1}{2}$ dozen tripoli.
 $\frac{1}{2}$ pound rotten stone.
11 sheets emery cloth.
2 papers tacks.
8 pounds brown soap.
10 pounds castile soap.
1 Jones coupling.
 $\frac{1}{2}$ sheet of gum.
12 sheets crocus cloth.
1 whitewash brush.
18 small snaps.
2 curry-combs.
6 large bulwinkle snaps.
12 small bulwinkle snaps.
1 horse-brush.
2 new whips.
2 small door-gongs.
6 old nozzles.

2 small axes.
2 hand scrubbing-brushes.
4 old lanterns.
1 old steam-gauge.
5 new bit-straps.
4 packages curtain-cord.
2 dust-brushes.
5 new hame-straps.
1 extra relief-nozzle.
3 new halter-straps.
3 carpenter planes.
3 new files.
1 swinging lamp.
1 washer cutter.
1 whip-lash.
2 floor-brushes.
2 patent pole-snaps.
1 pound copper rivets and burs.
4 new bridles.
2 long-handled scrubbing-brushes.
5 brooms.
3 old pole-straps.
4 sleeve jackets.
1 old gum-pipe.

List of members No. 3 Engine Company.

Names.	Rank.	Age.	Occupation.	Residence.
Walter Cox.....	Foreman	34	Carpenter	214 Delaware avenue, northeast.
William Leeman.....	Engineer	43	Machinist	402 B street, southeast.
William Kirkpatrick..	Fireman	35	Carpenter	51 D street, northeast.
Michael Kane	Hostler	41	Hostler	317 B street, northeast.
James Frazier	Private	42	Mariner	809 East Capitol street.
Samuel Nelson	do	24	Carpenter	504 E street, southeast.
James Nolan	do	30	Plasterer	712 C street, northeast.
Edward Whyte.....	do	25	Wood-turner ...	New Hampshire ave. and M st.
John Kane	do	31	Plasterer	411 Fourth street, northeast.
Lawrence Grant.....	do	27	Bricklayer.....	110 L street, northwest.
James Lowe	Watchman	52	Carpenter	203 Second and A streets, north-east.

Inventory of Engine Company No. 4.

WASHINGTON, D. C., July 1, 1881.

SIR: I most respectfully submit the following list of property of No. 4 Engine Company from July 1, 1880, to June 30, 1881.

One two-story brick house located on Virginia avenue between Fourth-and-a-half and Sixth streets southwest, with stable and hose tower attached.

ENGINEER'S DEPARTMENT.

1 third-class Silsby engine.	1 half-gall. oil-can.
1 engine-heater.	7 spanner-wrenches.
2 blind-caps.	1 socket wrench.
6 files.	3 monkey-wrenches.
1 extra pole.	3 pole-straps.
1 hammer.	3 oil-cans.
1 brace.	1 reducer.
1 extra wrench.	1 ten-gallon oil-can.
2 pairs pliers.	1 pipe-wrench.
1 five-gallon oil-can.	4 slip-joints.
1 three-gallon oil-can.	1 shovel.
1 slice-bar.	1 relief-valve.
1 bench-vise.	2 pole-snaps.
1 washer-cutter.	1 wood-ax.
1 whip.	1 rule.
1 flue-brush.	2 play-pipes.

HOSTLER'S DEPARTMENT.

4 horses.	3 old bits.
4 sets harness.	4 gum horse-covers.
1 set harness, unserviceable.	2 sweat-scrapers.
2 old breeching.	1 shovel.
2 pair old hames.	3 pitch forks.
3 pair old pole-straps.	1 half-peck measure.
4 old saddle-pads.	1 sieve.
5 leather-traces.	1 broom.
7 brow-bands.	30 ft. $\frac{3}{4}$ hose.
4 horse-blankets.	2 curry-combs.
4 horse-hoods,	2 hose-brushes.
2 figure-8 rings.	2 rubbing-cloths.
2 pole-snaps.	1 pair of lead bars.
3 old bridles.	1 watering-pot.
1 knee-pad.	2 wooden buckets.
1 over-draw.	1 gum bucket.
1 pad-saddle.	2 swinging-lamp.
2 hitching-straps.	2 pairs clippers.
1 seat-strap.	3 whips.
1 pair shears.	2 mane-combs.
1 hame-strap.	8 bullwinkle snaps.
9 small snaps.	1 harness-punch.

HOSE DEPARTMENT.

1 hose carriage.	1 pair sleeve-breeches.
600 feet paragon hose.	1 carriage-whip.
700 feet 4-ply Acme hose.	100 feet life-line.
1,700 feet hose in bad order.	100 feet street-line.
200 feet old leather hose.	1 reducer.
4 branch pipes.	4 fire-axes.
12 nozzles.	1 gum bucket.
1 relief-nozzle.	4 half-traces.
1 pipe holder.	2 pole-straps.
1 pair shafts.	2 carriage-lamps.
2 jack-screws.	5 ladder-straps.
2 Johnson pump.	2 pole-snaps.
1 goose-neck.	4 extra half-traces.
8 spanners.	1 carriage-apron.
1 spray-nozzle.	1 Nealy respirator.

FURNITURE AND BEDDING.

12 iron bedsteads.	18 stair-rods.
11 mattresses.	10 window-shades.
30 bed-sheets.	1 table-cover.
11 pillow-cases.	3 coal-hods.
34 blankets.	1 ink-stand.
28 chairs.	1 table.
14 spittoons.	13 yards oil-cloth.
2 time-clocks.	20 yards carpet crash.
3 stoves and pipes.	4 floor-mops.
3 looking-glasses.	1 watering-pot.
1 dust-pan.	2 hair-combs.
1 writing-desk.	2 hair-brushes.
2 carpets.	1 alarm-gong.
3 oil-rugs.	1 wash-stand.
6 pieces oil-cloth.	1 bath-tub.
2 water-closets.	1 wall-brush.
1 bull's-eye brush.	1 book-case.
1 piece zinc.	5 door-mats.
10 bed-spreads.	11 white bedspreads.
12 towels.	4 feather dusters.
1 whisp broom.	1 water-cooler.
1 frame of rules.	4 pictures.
7 gas globes.	1 waste-basket.

STORES ON HAND.

25 pounds cotton-waste.	2 whitewash-brushes.
6 chamois skins.	$\frac{1}{4}$ gallon turpentine.
18 papers tripoli.	60 boxes matches.
5 bars castile soap.	2 papers tack.
2 ladder-straps.	2 chair-bottoms.
2 paint-brushes.	1 dust-brush.
2 planes.	20 pounds axle-grease.
1 adze.	5 pounds white-lead.
6 hos-ecouplings.	1 handsaw.
1 copper boiler.	1 hatchet.
12 sheets emery-cloth.	5 pounds whiting.
2 pounds curtain-cord.	1 pickax.
6 corn brooms.	4 mop-handles.
24 cotton mops.	2 gallons linseed-oil.
$\frac{1}{2}$ gallon copal varnish.	4 lights glass.
3 gallons coal-oil.	5 gallon lard-oil.
$\frac{1}{2}$ cord sawed and split pine wood.	3 tons splint coal.
100 pounds straw.	200 pounds hay.
5 bushels oats.	1 peck flaxseed-meal.
$\frac{1}{2}$ bushel salt.	1 stock and die.
1 pipe-cutter.	1 pipe-vise.

EXTRA APPARATUS.

1 four-wheel fuel-wagon.
1 old truck.
2 old Silsby wheels.
1 coal-shovel.

4 old Amoskeag wheels.
1 set single harness.
1 oil-can.

List of members No. 4 Engine Company.

Name.	Rank.	Age.	Occupation.	Residence.
William T. Sorrell . . .	Foreman	46	Mariner	412 Twelfth street, southwest.
Francis Donnelly . . .	Engineer	38	Pattern-maker . .	309 D street, southwest.
F. H. Myers	Fireman	39	Carpenter	1218 Union street, southwest.
John Waldron	Hostler	34	Laborer	405 Four-and-a-half street, southwest.
William Ricks	Private	30	Engineer	480 Pennsylvania avenue, northwest.
William White	do	39	Brick-maker . . .	124 Willow Tree alley, southwest.
Thomas J. Coffey . . .	do	26	Laborer	306 C street, southwest.
Jos. Creamer	do	26	do	610 Maryland avenue, southwest.
Robert Dickson	do	28	do	H, between Fourth and Fifth streets. northwest.
R. T. Williams	do	25	Bricklayer	621 D street, southwest.
John Maken	do	28	Laborer	925 Tenth street, northwest.

Respectfully submitted.

WM. T. SORRELL,
Foreman No. 4 Engine Company.

MARTIN CRONIN, Esq.,
Chief Engineer District of Columbia Fire Department.

Inventory of Engine Company No. 5.

WASHINGTON, D. C., August 25, 1881.

SIR: I most respectfully submit the following inventory of property of No. 5 Engine Company for the year ending June 30, 1881.

One two-story brick house, in very bad condition, with large bell, and hose-house attached, located at No. 1066 Thirty-second street, West Washington.

ENGINEER'S DEPARTMENT.

1 double pump, second-class, Amoskeag engine.
1 Bashor and Stedman's coilless heater, attached to engine and bath-tub.
2 extra heater-cocks.
1 Prunty's relief valve, hose, and clamp.
4 extra wheels.
1 screw jack.
7 small files.
4 squirt-cans.
12 large files, good.
8 large files, bad.
3 shovels.
1 feather duster.
1 vise and bench.
13 wrenches, assorted.
1 ratchet wrench.
4 leather half traces and snaps.
1 extra grate bar and 3 centers.
6 glass water-gauges.
1 globe valve, attached to heater.
1 pint castor oil and can.

7 pounds Selden's packing.
40 pounds cotton-waste.
1½ tons splint coal.
2 brass play pipes and nozzles.
1 leather gong strap.
1 steam-register gauge.
1 hand ax.
4 extra brass axle-nuts.
2 coal-oil cans and 20 gallons of oil.
2 side lights.
2 gum sleeve-gaskets.
1 extra sleeve.
1 sleeve brace.
1 set of lead bars.
2 suction sleeve-leathers.
20 feet of copper-wire rope.
2 extra heater grates.
30 feet of rope.
2 slice bars.
1 tub scraper.
2 tub brushes.
1 tub-brush handle.

1 reducer.
 1 plug thawer.
 1 spring clamp.
 1 lead rope and snaps.
 2 machine-oil cans and 10 gallons of oil.
 1 brass plug.
 7 tube irons.
 4 air-chamber spanners.
 1 hose spanner.
 1 small cut-off valve.
 2 brass lanterns.
 3 monkey-wrenches.
 1 extra pole.
 1 grate pattern.
 1 glass water-gauge, attached to heater.
 7 balls lamp wick.

15 pounds sheet-gum packing.
 $\frac{3}{4}$ cord sawed and split wood.
 3 seat cushions.
 1 clock; 2 gongs.
 2 plug keys.
 15 pounds tallow.
 1 small nozzle, brass.
 2 sponges; 1 chamois.
 2 canvas sleeves.
 1 set Prunty's spring valves.
 2 brass blind caps.
 1 tool cupboard.
 15 pump-valve springs.
 1 gum bucket.
 8 leather pump-cups.
 1 extra steam-gauge.

HOSE-CARRIAGE DEPARTMENT.

1 4-wheel hose-carriage.
 2,650 feet of good Paragon hose.
 1,100 feet of Acme hose, in fair condition.
 150 feet of unserviceable hose.
 1 gum hose-pipe and nozzle.
 2 copper hose-pipes.
 2 leather hose-pipes and nozzles.
 2 Prunty's cut-off nozzles, complete.
 2 Oyston's spray-nozzles.
 1 metal pipe holder.
 1 well wheel, for horse power.
 25 wooden hose pegs.
 4 ladder straps.
 1 wheel nut-wrench.
 1 leather gooseneck.
 1 feather duster.
 1 jack; 2 brass lanterns,
 1 nickel-plated reflecting lamp.
 1 plug wrench.
 6 plug keys.
 2 Johnson force-pumps and racks.
 2 reducers, brass.
 1 brass spring spool-snap.
 1 inside fire-box key.
 1 fire-box master key.
 1 fire-alarm key.

1 chamois.
 1 sponge.
 1 gum bucket.
 1 extra pole.
 2 extra swingle-trees.
 4 leather half traces and snaps.
 50 feet of rope for hose tower.
 1 fire ax and holder.
 2 sets and a half of Jones' hose couplings.
 2 pipe racks.
 2 seat cushions.
 6 spanners.
 4 hose patches.
 5 spool straps.
 9 iron fenders for hose tower.
 3 extra brake blocks.
 2 smoke caps.
 1 smoke-cap box.
 300 feet cotton rope life-line.
 100 feet manila rope life-line.
 3 small pickaxes, scabbards, and belts.
 2 leather pipe-holders.
 1 leather pocket.
 1 spool canvas and apron.
 1 brass bell and rack.

HOUSE DEPARTMENT.

Schneider's improvement for releasing horse from stalls.
 1 fire-alarm gong.
 10 iron bedsteads.
 10 compensating bedsprings.
 10 hair mattresses.
 10 shuck-and-cotton mattresses.
 45 bed sheets.
 44 pillow slips.
 39 pairs white blankets.
 1 single white blanket.
 10 feather pillows.
 9 hair pillows.
 32 bedspreads.
 20 towels.
 1 bunk-room carpet.
 2 stair carpets.
 1 stair oilcloth.
 16 nickel-plated stair rods.
 1 bath-room oilcloth.
 1 Morse key and sounder.

1 Bell telephone.
 3 step ladders.
 1 Worcester's Dictionary.
 1 District fire-alarm card.
 2 tons hard coal.
 1 bottle ink.
 1 inkstand.
 1 scrubbing brush and handle.
 4 floor mops.
 1 clothes brush.
 1 iron hand-rail.
 8 blank receipt books.
 12 iron stair brackets.
 1 force-pump.
 1 company marking-stamp and ink.
 13 spittoons.
 6 tin cuspidores.
 7 floor mats.
 1 writing desk.
 2 hair combs.
 2 hair brushes.

2 wooden buckets.
 4 stove brushes.
 3 tin cups.
 1 feather duster.
 1 copper boiler.
 1 hatchet.
 1 paper cutter.
 2 2-light gas chandeliers and globes.
 1 2-light gas swinging light.
 1 1-light gas pendant.
 5 wall gas brackets.
 5 self-lighting gas burners.
 1 requisition book.
 2 squirt cans.
 2 mop handles.
 3 pair wire pliers.
 1 bottle mucilage.
 1 picture and frame of fire engineers
 United States.
 1 table.
 1 looking-glass.
 2 bookcases.
 160 bound books.
 1 water cooler and stand.
 4 coal hods.
 1 large shovel.
 1 bucket for sugar.
 1 bucket for coffee.
 4 pounds sugar.
 2 pounds coffee.
 1 washer cutter.
 1 handsaw.
 10 company books.
 10 bound Rules and Regulations.
 1 Rules and Regulation card.
 1 piece zinc.

2 benches.
 1 sprinkling can.
 1 dust pan.
 1 grindstone.
 3 ceiling hooks.
 2 sponges.
 2 chamois.
 1 blacking brush.
 1 blacking dip.
 1 box blacking.
 6 fire-alarm keys.
 60 feet street hose and pipe.
 2 door ropes, hooks, and rings.
 2 pairs gas tongs.
 2 fig. 5 dies.
 16 chairs.
 1 revolving office chair.
 1 clock.
 1 pair scissors.
 16 window shades and fixtures.
 12 lockers.
 2 stoves and pipe for one.
 2 small shovels.
 1 coffee pot.
 2 long handled hair dusters.
 1 short handled hair duster.
 1 whisk broom.
 2 common brooms.
 1 willow broom.
 1 backgammon board and dies.
 1 iron basin.
 1 marble top washstand.
 1 soap dish.
 1 bath tub.
 1 urinal.
 1 water closet.

HOSTLER'S DEPARTMENT.

4 horses.
 2 sets of double harness complete with
 the Champion swinging hames
 weights and pulleys attached.
 2 extra sets double harness.
 8 horse blankets.
 4 horse boots.
 2 water buckets.
 2 wooden horse scrapers.
 4 brass pole snaps.
 2 pad saddles.
 10 halter stems.
 8 cans harness oil.
 100 feet rope.
 4 mane and tail cards.
 2 extra collar pads.
 1 mixed feed box.
 1 gill turpentine.
 1 quart oil origanum.
 20 bullwinkle snaps.
 1 clipping machine.
 6 curry combs.
 4 pitchforks.
 1 peck measure.
 4 fig. 8 rings.
 2 shovels.
 4 extra bridles.
 1 pair clipping shears and comb.
 1 halter chain.
 1 head halter.
 1 sifter.
 1 harness punch.

2 mane combs.
 4 linen horse covers, bad.
 4 oil horse covers.
 1/2 pint oil spike.
 1 bushel salt.
 1 Dutch collar and pad.
 24 buckle covers.
 2 sets hand holds.
 8 horse brushes.
 4 surcingles.
 4 horse boots.
 1 stable broom.
 2 corn brooms.
 1 watering trough.
 4 hitching straps.
 1 single block.
 1 double block.
 5 whips.
 17 hame straps.
 3 feed bins.
 1 wheelbarrow.
 1 quart arnica.
 2 rubbing cloths.
 2 water brushes.
 1/2 pint sweet spirits niter.
 4 mane brushes.
 2 leather horse muzzles.
 4 hame springs for line snaps.
 1 can harness dressing.
 1 meal bucket.
 3 sponges.
 6 iron horse troughs.

FORAGE DEPARTMENT.

10 bushels oats.
200 pounds hay.
100 pounds straw.

$\frac{1}{2}$ bushel bran.
 $\frac{1}{4}$ peck flax-seed meal.

STOREHOUSE DEPARTMENT.

53 papers eagle tripoli.
1 pound stove polish.
29 lamp wicks.
47 sheets crocus cloth.
 $\frac{1}{2}$ bucket axle grease.
6 boxes copper rivets.
6 panes glass.
 $1\frac{1}{2}$ gallons raw oil.
13 pounds castile soap.
8 chamois.
14 pounds oxalic acid.
3 pounds nails.
29 sheets emery cloth.
7 lamp globes.
12 snaps.
3 boxes roach powder.
8 pounds sponge.
12 pounds whiting.
6 papers carpet tacks.
 $1\frac{1}{2}$ gross matches.
2 extra brass lanterns.
2 pounds copper wire.
10 cotton floor mops.
5 papers sapolio.
2 corn brooms.
2 gallons boiled oil.
2 floor mop handles.
6 carriage bolts.
3 scrubbing brushes.
1 scrubbing brush handle.
1 bottle insect exterminator.
47 cakes toilet soap.
2 pounds brown soap.
 $\frac{1}{2}$ pint turpentine.
6 feather dusters.
3 pounds rotten stone.

5 feet hoop iron.
1 paper screws.
2 fig. D rings.
4 large trace snaps.
15 pounds gasket gum.
1 extra nickel-plated oil cup.
9 sets Work couplings.
18 Work coupling rings.
5 Morse coupling rings.
15 feet gum tubing.
 $1\frac{1}{2}$ pounds glue.
2 gong blocks.
6 small iron pulleys.
2 hose-coupling machines.
10 boxes blacking.
1 small chain.
1 whip socket.
2 oil cans, wooden covers.
1 acid box.
1 spring lock.
3 pieces smoke cap sponge
4 hame springs.
1 small paint brush.
1 glue pot.
1 glue brush.
10 pounds Babbitt soap.
2 willow brooms.
1 hose tap.
1 blacking brush.
1 blacking dip.
2 funnels.
1 hair dust brush.
1 whiting box.
8 coat hooks.
2 whitewash brushes.

ASSISTANT CHIEF'S DEPARTMENT.

1 horse.
1 carriage.
1 reflecting lamp.
1 whip.
1 lamp and globe.
2 extra breeching straps.
1 extra pair shafts.
2 horse boots.
1 extra crupper.
1 extra breast collar.
1 chamois.

1 lever jack.
2 extra wheels.
2 lap robes.
3 sets single harness.
1 leather covered bit.
1 gum horse cover.
1 horse blanket.
1 extra draw rein.
1 extra breeching.
1 sponge.

List of members, No. 5.

Names.	Rank.	Age.	Occupation.	Residence.
Louis P. Lowe.....	Foreman.....	31	Clerk.....	2915 Olive avenue.
Edwards Rhodes.....	Engineer.....	42	Engineer.....	3246 Prospect avenue.
J. D. Angell.....	Fireman.....	33	do.....	1066 Thirty-first street.
J. H. Mahorney.....	Hostler.....	39	Carpenter.....	3221 P street.
Churchill Huitt.....	Private.....	33	Laborer.....	1918 New York avenue.
A. J. Sullivan.....	do.....	28	Blacksmith.....	3275 Prospect avenue.
J. W. Kurtz.....	do.....	27	Carpenter.....	1687 Valley street.
J. T. Greaves.....	do.....	32	Engineer.....	2911 Olive avenue.
T. C. Cohelan.....	do.....	32	Laborer.....	160 High street.
William Ellis.....	do.....	26	do.....	1066 West Market Space.

Very respectfully,

LOUIS P. LOWE,
Foreman No. 5 Engine Company.

MARTIN CRONIN,
Chief Engineer, District of Columbia Fire Department.

Inventory of No. 6, Engine Company.

WASHINGTON, D. C., June 30, 1880.

SIR. I most respectfully submit the following list of property up to June 30, 1881.

This company occupies a two-story brick house located on Massachusetts avenue between Fourth and Fifth streets, northwest.

ENGINEER'S DEPARTMENT.

1 Clapp & Jones engine in good condition.	1 gallon castor-oil.
1 Prunty relief-valve.	3 coils Selden's packing.
1 Walton Bros. engine-heater.	25 pounds cotton waste.
1 gum suction, 8 feet long.	24 papers tripoli.
1 cotton suction, 13 feet long.	15 pounds whiting.
2 signal lamps.	1 gallon coal-oil.
2 hand lamps.	1 gallon machine-oil.
1 head-light.	24 sheets emery cloth.
1 squirt can.	24 sheets crocus cloth.
1 small monkey-wrench.	1 oil-stone.
1 gong.	2 chamois skins.
4 spanners.	6 extra engine-tubes.
1 hammer.	1 tube wrench.
2 packing-box wrenches.	1 extra singletree.
1 slice-bar.	3½ tons engine coal, splint.
1 shovel.	4 files.
1 pair slip-joints.	½ cord pine wood.
2 ¾-inch stop-cocks.	4 tons chestnut coal for heater.
4 brass pipes.	1 5-gallon oil-can.
1 gum bucket.	1 2-gallon oil-can.
25 feet ¾-inch steam-hose.	2 heater-cocks, old.
1 gooseneck cotton.	1 extra engine-wheel.
4 extra nozzles.	2 suction clamps.
1 large monkey-wrench.	5 balls lamp-wick.
1 screw-jack.	12 lamp wicks.
1 coupling-expander.	1 reducer.
2 pounds sheet gum.	2 ¾-inch stop-cocks, old.
1 feather duster.	2 slip-joints, old.
1 extra steam-gauge, old.	1 vise.
10 engine-valves, old.	1 engine clock.
1 ½-gallon oil-can.	1 hammer, old.

HOSTLER DEPARTMENT.

5 horses in good condition.
 2 sets swinging harness.
 1 set double harness.
 2 sets single harness.
 15 bushels of oats.
 400 pounds hay.
 300 pounds straw.
 3 bushels mill-feed.
 $\frac{1}{2}$ peck of flax-seed meal.
 $\frac{1}{2}$ peck salt.
 4 pitchforks.
 2 scoop shovels.
 4 horse brushes.
 4 curry-combs.
 4 mane brushes.
 12 snap-hooks.
 6 hame-straps.
 1 clipping-machine, good.
 2 clipping-machines, old.
 1 pair shears.
 2 horse scrapers.
 4 hitching-straps.
 1 gallon arnica.
 2 exercising saddles.

9 horse blankets.
 6 horse hoods.
 1 gum blanket, old.
 4 lap robes.
 5 whips.
 1 double block and fall.
 4 cans harness-oil.
 1 riding saddle.
 2 horse buckets.
 2 brooms.
 1 lot straps.
 6 halter-stems, old.
 1 harness, old.
 1 feed-bin, old.
 1 feed-bin, new.
 1 harness-punch.
 2 half-peck measures.
 1 pair pole-snaps, extra.
 12 bullwinkle snaps.
 1 fine sieve.
 2 Dutch collars.
 2 sets hand-holds.
 4 surcingles.
 1 clipping-comb.

HOSE DEPARTMENT.

1 hose-carriage in good condition.
 57 sections cotton hose in good condition.
 4 gum pipes.
 12 plain nozzles.
 1 spray nozzle.
 1 cut-off nozzle.
 1 gum bucket.
 200 feet cotton life line.
 300 feet manila rope.
 2 Johnson pumps.
 12 steel spanners.
 2 canvas aprons.
 3 reducers.
 2 axes.

$\frac{1}{2}$ bucket axle-grease.
 2 sets Jones couplings.
 2 2-way Siamese connections.
 2 hose patches.
 12 plug keys.
 5 ladder straps.
 1 screw-jack.
 1 wooden jack.
 1 monkey-wrench.
 2 extra singletrees.
 2 extra lamp-irons.
 1 lamp.
 50 feet $\frac{3}{4}$ -inch gum hose.
 1 cotton pipe.

HOUSE DEPARTMENT.

6 Oak arm chairs.
 2 looking-glasses.
 2 combs and brushes.
 2 whisk brooms.
 2 water-closets.
 1 bath-tub.
 1 urinal.
 1 wash-stand.
 6 yards oil cloth.
 6 rugs.
 1 sitting-room carpet.
 2 front-room carpets.
 1 bed-room carpet.
 36 gas-fixture globes.
 2 feather dusters.
 19 stair rods.
 15 yards stair carpet.
 30 yards carpet oil-cloth.
 3 door mats.
 1 set rules and regulations.
 1 telephone.
 2 12-light chandeliers.
 1 2-light chandelier.
 7 double swing brackets.
 4 1-light gas fixtures.
 2 stoves.
 2 clocks.
 18 spittoons.

4 chairs, old.
 1 bench, old.
 1 large walnut table.
 1 center walnut table.
 10 curtains.
 1 table cover.
 2 inkstands.
 1 desk.
 3 ruggets.
 22 mattresses, good.
 11 mattresses, old.
 30 bed spreads.
 13 feather pillows.
 18 walnut cane-seat chairs.
 2 sets lace curtains.
 1 gong alarm.
 11 iron bedsteads.
 1 walnut bedstead.
 1 walnut wardrobe.
 1 lounge.
 1 walnut bookcase.
 3 pieces zinc.
 1 office chairs.
 1 picture chief fire engineers United States.
 50 sheets.
 25 pillow slips.
 36 double blankets.

- | | |
|----------------------|---------------------------------|
| 12 roller towels. | 2 step-ladders. |
| 1 dustpan and brush. | 15 yards carpet oil-cloth, old. |
| 1 wall brush. | 1 lot pictures. |

STORE-HOUSE DEPARTMENT.

- | | |
|-------------------------|--------------------------------------|
| 25 pounds castile soap. | 1 gallon turpentine. |
| 15 pounds brown soap. | 1 gallon boiled oil. |
| 2 pounds sponge. | 4 paint brushes. |
| 6 chamois skins. | 12 sets Work's patent hose coupling. |
| 8 cotton mops. | 4 boxes toilet soap. |
| 4 mop-handles. | 1 gallon castor oil. |
| 3 papers tacks. | 12 sheets emery cloth. |
| 4 scrubbing brushes. | 12 sheets crocus cloth. |
| 3 dust brushes. | 1 lot straps. |
| 1 wall-brush. | 1 dozen lamp-globes. |
| 1 pound copper rivets. | 2 panes glass. |
| 13 corn brooms. | 2 pair T-hinges. |
| 3 pounds copper wire. | 1 lamp and bracket. |
| 3 papers stove-polish. | |

MISCELLANEOUS.

- | | |
|------------------------------|----------------------|
| 1 wagon-pole. | 1 cotton goose-neck. |
| 2 shovels. | 1 crowbar. |
| 2 pieces 3-inch rubber hose. | 2 coal-hods. |
| 1 lot old cans. | 1 sieve. |
| 1 old watering-pot. | 2 hay-hooks. |
| 1 lot old iron. | |

List of members of Engine Company No. 6.

Name.	Rank.	Age.	Occupation.	Residence.
Charles Merrillat	Foreman	34	Plumber	740 Fourth street, northwest.
Thomas Martin	Engineer	42	Blacksmith	475 I street, northwest.
Newman Wilkinson ..	Fireman	34	Machinist	1000 Sixth street, northwest.
Alexander Savoy	Hostler	38	Barber	218 G street, northwest.
John Brosnan	Private	28	Paver	209 K street.
Howard Wright	do	30	Carpenter	411 New York avenue, northwest.
William Ennis	do	31	Laborer	935 Fourth street, northwest.
Patrick Carroll	do	29	Blacksmith	732 Fourth street, northwest.
William Roche	do	32	Bricklayer	110 L street, northwest.
Edward Sullivan	do	23	Stone-cutter	918 First street.
Jacob Acker	do	35	Locksmith	10 I street, northeast.

Respectfully submitted.

CHARLES MERRLLAT,
Foreman No. 6 Engine Company.

MARTIN CRONIN,
Chief Engineer, District of Columbia Fire Department.

Inventory of Truck Company A.

WASHINGTON, D. C., August 29, 1881.

SIR: I most respectfully submit the following inventory of real estate stock, fixtures, &c., held by Truck Company A for the year ending June 30, 1881.

Respectfully submitted.

C. CLARK, Foreman.

MARTIN CRONIN,
Chief Engineer District of Columbia Fire Department.

1 2-story brick house.

TRUCK ROOM.

1 Buckley and Merritt 4-spring truck in good condition.	1 battering ram.
1 65-foot extension ladder and lever attached, with poles, stays, halyards, and platform complete.	1 spade.
1 41-foot ladder.	4 lamps.
1 36-foot ladder.	2 side lamp reflectors.
2 30-foot ladders.	1 hand reflector.
1 24-foot ladder.	1 head light.
1 20-foot ladder.	6 axes.
1 16-foot ladder.	2 respirators.
1 12-foot ladder.	1 pipe-holder.
9 hooks.	1 gas wrench.
5 hose hooks.	4 gum buckets.
1 gong.	1 6-inch grab hook.
1 hammer.	3 Johnson pumps.
3 75-foot life lines.	2 monkey-wrenches.
3 forks.	1 auger.
	1 pair pliers.
	1 crow-bar.
	1 wheel for truck, extra.

HOSTLER'S DEPARTMENT.

2 horses.	2 halter chains.
1 double set of swinging harness.	2 halter straps.
1 saddle.	2 bullwinkle snaps.
4 blankets.	1 chamois.
2 pairs clippers.	2 buckets.
1 pair shears.	2 whips.
1 punch.	2 forks.
2 old bridles.	2 shovels.
2 curry combs and brushes.	1 set extra double harness.
2 mane brushes.	2 brooms.
2 figure-8 rings.	

ENGINE DEPARTMENT EXTRAS.

1 second-class Amoskeag engine.	6 assorted wrenches.
1 hose carriage.	1 shovel.
1 lamp.	1 slash bar.
1 oil can.	2 fenders.
1 monkey-wrench.	

SITTING-ROOM AND HALLWAY.

1 old carpet.	1 stove and pipe.
8 arm-chairs.	1 telephone and sounder.
1 clock.	1 piece oil-cloth, old.
1 cooler.	6 spittoons.

SLEEPING APARTMENTS AND BATH-ROOM.

24 chairs.	1 alarm gong.
13 iron bedsteads and springs.	12 spittoons.
13 mattresses.	2 brushes and combs.
12 hair pillows.	2 soap dishes.
12 feather pillows.	1 step-ladder.
9 curtains.	1 gum bucket.
1 lounge.	1 scrub brush.
2 arm-chairs.	2 looking-glasses.
1 bookcase.	1 inkstand.
2 stoves.	17 globes.
1 clock.	1 scrap-basket.
20 white spreads.	1 table and cover.
35 sheets.	1 day-book.
37 pillow slips.	1 feather duster.
34 towels.	1 broom.
44 blankets.	1 dust-pan and brush.
3 carpets.	1 mop.
1 oil-cloth in bath room.	1 stair carpet and rods.
1 desk.	

STOREROOM AND MISCELLANEOUS.

3 extra engine wheels.	10 sheets emery-cloth.
5 pieces rope.	1 breast collar.
2 coal-hods.	1 ton steamer coal.
2 shovels.	6 ax handles.
3 wooden buckets.	2 mane combs.
1 gum bucket.	1 reducer.
1 pipe holder.	2 pole chains.
3 mops.	1 iron trough.
3 brooms.	4 mop-handles.
1 whitewash-brush.	1 leather pipe.
2 oil-cans.	3 old sections canvas hose.
1 wheelbarrow.	1 work-bench.
1 watering-pot.	1 vise.
2 picks.	2 rubbing-cloths.
5 door mats.	5 pounds castile soap.
3 oak boards.	15 cakes Babbitt soap.
pieces old garden hose.	1 pair gas-pliers.
1 jack-plane.	8 papers stove-polish.
1 fore-plane.	1 rule.
1 smoothing-plane.	15 pound lead.
1 iron plane.	2 dusters.
2 files.	$\frac{1}{2}$ gallon hard oils.
3 pairs tongs.	$\frac{1}{2}$ gallon turpentine.
1 jack.	5 dozen matches.
2 hub wrenches.	5 paint brushes.
1 saw.	2 glasses for reflector.
1 screw-driver.	2 chimneys.
10 pounds waste.	8 snaps, assorted.
2 cans harness oil.	3 pieces linoleum.
2 squirt cans.	1 picture.
8 papers tripoli.	

List of members of Truck Company A.

Name.	Rank.	Age.	Occupation.	Residence.
C. Clark	Foreman	42	Laborer	1511 Rhode Island avenue.
D. F. Craven	Tillerman	29	Seaman	229 Tenth street, s. e.
J. O. Leary	Hostler	32	Blacksmith	North Capitol, bet. G and H.
J. Melson	Private	38	Laborer	B street, bet. Third and Fourth, n. e.
Thomas Scott	do	31	Carpenter	Eighth street, bet. E and G, s. e.
William Luskey	do	31	Laborer	131 Third street, n. e.
H. Hernline	do	33	do	Sixth street, bet. A and B, s. e.
Thomas R. Newman	do	45	Blacksmith	Third and A, n. e.
R. T. Williams	do	25	Bricklayer	Seventh street, above W.
S. R. Henry	do	32	Laborer	22 Second street, n. e.

Inventory of Truck Company B.

WASHINGTON, D. C., July 1, 1881.

SIR: I respectfully submit the following list of property in charge of Truck B. This company occupies a two-story brick house, in good condition, located on the corner of New Hampshire avenue and M street.

SITTING AND SLEEPING ROOMS UPSTAIRS.

24 walnut chairs.	26 white spreads.
1 sofa.	12 towels.
1 library case.	2 chandeliers.
3 carpets.	24 globes.
2 looking-glasses.	1 large center-table.
10 window-curtains.	1 large cover.
12 iron bedsteads.	2 mats.
12 springs.	1 old rug.
12 hair mattresses.	1 clock.
12 hair pillows.	1 writing-desk.
48 double blankets.	8 tin spittoons.
24 sheets in good order.	1 large stove, old.
24 old.	1 stair-carpet and rods.
24 pillow-cases.	

SITTING-ROOM DOWNSTAIRS AND HALLWAYS.

9 oak chairs.	2 tin spittoons.
1 center-table and cover.	2 mats.
1 carpet.	2 pieces oil-cloth.
1 window curtain.	1 piece zinc.
1 old stove.	1 picture fire engineers.
1 key and sounder.	1 telephone.

TILLERMAN DEPARTMENT.

1 Babcock hook-and-ladder truck, in good order.	1 spade.
1 Bangor extension-ladder, 80 feet long, with lever attached.	6 boxes axle-grease.
1 Bangor ladder, 40 feet long, with lever attached.	1 gallon of castor oil.
8 ladders of different lengths.	4 cotton mops.
4 poles belonging to Bangor ladders.	2 signal lamps for truck.
1 platform and turn-table combined, chief engineer Cronin's patent for raising large ladder.	2 dozen bolts.
1 grapple-hook, with chain attached.	1 pair of pliers.
1 battering-ram.	1 hammer.
2 gas or water keys.	4 old files.
2 crowbars.	1 old smoke cap.
4 Johnson pumps.	1 dozen lamp-wicks.
1 auger.	4 gallons coal oil.
1 pair of wire pliers.	1 new life-line.
1 leather-punch.	5 pounds of cotton waste.
1 pair of tinner's snips.	1 pair of plumber's tongs.
1 monkey-wrench.	3 chamois skins.
3 smoke caps.	2 pieces of sponge.
4 pitch-forks.	2 pounds of plumbago.
4 ladder-straps.	1 gas key.
3 street-lines.	4 small side-hatchets.
3 life-lines.	2 pounds of copper wire.
4 brooms.	3 ax-handles.
8 small side-hatchets.	2 oil-cans.
4 pick-axes.	2 monkey-wrenches..
2 plain axes.	1 screw-driver.
4 new hand-lanterns.	3 door-springs.
3 old hand-lanterns.	1 canvas bag.
1 signal lamp.	25 feet of rope.
1 large locomotive head-light for truck.	1 iron block.
3 shovels.	1 vise.
2 Babcock fire-extinguishers.	2 coal-oil cans.
14 gum fire buckets.	3 pounds of oxalic acid.
1 jack-screw.	2 pipe-holders.
3 wrenches.	2 extra poles.
	1 old ladder, been broke.
	3 boxes of charges fire extinguishers.
	8 hooks of different lengths.
	1 wall-pick.
	1 grindstone.

HOSTLER DEPARTMENT.

2 horses, in good condition.	2 horse buckets.
1 old.	2 pitchforks.
2 sets of double harness, new.	2 stable brooms.
2 sets old.	1 pair snips.
2 sets pole straps.	1 feed sieve.
2 sets traces.	1 tin water pot, old.
6 hitching straps.	1 trap hook.
2 pair horse clippers.	1 iron water trough.
1 pair shears.	1 extra set bridles.
4 horse blankets.	1 mop.
2 hoods.	1 feather duster.
1 pair summer spreads, old.	1 harness punch.
4 curry combs.	1 peck salt.
4 horse brushes.	1 small frame feed house.
2 cotton dusters.	15 bushels oats.
1 pair 4-horse reins.	4 bushels bran.
1 extra set reins.	2 bushels meal.
1 pair surcingles.	$\frac{1}{4}$ bushel flax-seed meal.
1 saddle.	600 pounds hay.
2 extra sets pole snaps.	300 pounds straw.
2 sets halter straps.	

STORES ON HAND.

15 pounds castile soap.	6 lamp globes.
10 pounds brown.	2 packages kalsomine.
24 papers tripoli.	$\frac{1}{2}$ gallon lard oil.
24 sheets crocus cloth.	1 gallon boiled oil.
15 sheets emery cloth.	$\frac{1}{2}$ gallon turpentine.
24 cotton mops.	1 pound green paint.
3 curry combs.	4 spring catches for doors.
3 horse brushes.	2 saw sets.
2 feather dusters.	2 monkey-wrenches.
1 quart arnica.	4 clothes hooks.
6 papers stove polish.	2 lamp stays.
2 dust pans.	1 wall pick.
2 dust brushes.	4 pickaxes.
1 dozen corn brooms.	1 reducer.

MISCELLANEOUS ARTICLES.

5 tons stove coal.	1 brace.
2 tons splint coal.	12 bits, of different sizes.
$\frac{1}{4}$ cord sawed and split wood.	4 saws, of different sizes.
1 water cooler.	1 pair snips.
1 step ladder.	3 planes.
1 copper kettle.	6 chisels.
2 dust pans.	1 oil can.
2 dust brushes.	1 trowel.
1 feather duster.	1 hatchet.
2 14-inch hair brushes.	2 files.
2 wall brushes.	1 spokeshave.
4 coal hods.	1 oil stone.
1 paint brush.	1 putty knife.
2 whitewash brushes.	1 pair hinges.
2 old buckets.	4 quart cups.
2 mops.	75 feet street hose.
1 chamois skin.	1 record book.
15 sheets tin.	1 requisition book.
2 alarm keys.	1 ledger book.
1 relief key.	1 coal shovel.
1 hose-carriage bell.	

EXTRA APPARATUS ON HAND.

1 old Amoskeag engine, in good order. | 1 extra hose carriage, in good order.

List of members of Truck B.

Name.	Age.	Occupation.	Residence.
George Spilman.....	37	Laborer	2131 Pennsylvania avenue.
John Sherman	36	do	1831 R street.
Daniel Williams	40	do	1212 Twenty-fourth street.
Charles Boss	30	Wood-turner	1926 K street.
William Whitmore	24	Hostler	409 Fourteenth street.
Charles McCarthy	30	Carpenter	915 Fifteenth street.
William French	37	Laborer	1018 Twentieth street.
Herod Osborn	30	Clerk.....	Twenty-first street, between M and N streets.
Richard Sweeney	28	do	Sixth and South A.
James Fleet	29	School-teacher....	1549 T street.
John Hyland	27	Laborer	Twenty-first, between L and M streets.
John Walker	44	Watchman	Potomac street, Georgetown.

Respectfully submitted.

GEORGE SPILMAN,
Foreman Truck B.

MARTIN CRONIN,
Chief Engineer, District of Columbia Fire Department.

APPENDIX G 3.

REPORT OF FIRES.

TABLE A.—Detailed statement of fires, losses, and insurance for year ending June 30, 1881, accompanying report of chief engineer.

No. of fire.	Date.	Hour.	Box.	Style of building.	Cause.	How occupied.	Owner or occupant.	Location.	Dam- age.	Insur- ance.
1	1880. July 4	a. m.								
2	July 4	1. 10	25	Frame	Fire-crackers	Dwelling	Mrs. Thompson	8th, near M. n. w.	\$50	
3	July 4	2. 15	217	do	do	do	Dr. Fardon	In country	250	
4	July 4	8. 50	423	do	Sky-rocket	Stable	H. Blunt	do	Slight	
5	July 8	1. 00	613	do	Incendiary	Grocery store	J. Scott	Corner 3d and H. n. e.	do	
6	July 8	1. 00	126	Brick	Gas explosion	Dry goods	William Brown	817 Market Space	150	\$150
7	July 12	2. 10	72	do	Incendiary	Church	Mount Zion	Mill street, near West, Georgetown.	2,000	2,000
8	July 13	4. 05	26	do	Chemical explosion	Drug store	A. Klockiss	9th, between D and E, n. w.	300	300
9	July 21	8. 28	23	Tar-pot	Boiling over		William H. Mohler	Corner North Capitol and New Jersey avenue	Slight	
10	July 22	1. 55	126	Brick	Incendiary	Livery stable	J. Keliber	8th, between D and E, n. w.	5,000	
11	July 22	8. 56	126	do	Stove	Dwelling	Tenements	8th and D, n. w.	Slight	
12	July 23	2. 28	126	do	Incendiary	Stores	G. Mattingly	9th and E, n. w.	100	
13	July 24	2. 10	612	Frame	do	Dwelling	Mrs. Curtain	7th, between D and C, n. e.	100	
14	July 27	3. 26	54	do	Caught from kiln	Brick-kiln	Kilable	2d and N. s. e.	50	
15	July 31	3. 15	27	do	Caught from oven	Bakery	D. Voland	907 N street, n. w.	200	200
16	Aug. 18	8. 10	39	do	Incendiary	Dwelling	M. Welsh	Alley, between 24th and 25th, n. w.	Slight	
17	Aug. 26	8. 35	214	do	Coal-oil	do		Kingman street, n. w.		
18	Aug. 28		38		False alarm					
19	Aug. 28		41	Frame	Spontaneous combustion	Junk shop	J. Collins	3d and C streets, s. w.	150	150
20	Sept. 1	6. 34	125	Brick	Coal oil	Dwelling	M. Angenstein	817 7th street, n. w.	Slight	
21	Sept. 4	2. 23	124	Frame	Accident	Carpenter shop	G. W. Corbett	803 E street, n. w.	150	
22	Sept. 17	10. 42	46	do	Stove	Dwelling	William Bradley	O street, between 6th and 7th s. w.	Slight	
23	Sept. 18	2. 03	124	do	False alarm	Restaurant	Harvey's	Corner 7th and E, n. w.	200	
24	Sept. 25	6. 05	143	Brick	Unknown	Stable	Hothentimer	Corner 11th and O, n. w.	200	200
25	Sept. 26	3. 30	412	do	Incendiary	Ice-cream saloon	Plant's building	New York avenue and 15th street, n. w.	300	300
26	Oct. 11	3. 15	135	Frame	do	Grocery store	Thomas Carroll	Corner 11th and D streets, n. w.	2,000	2,000
27	Oct. 11	1. 00	721	Brick	do	Stable	Dr. Smith	11th, near M, n. w.	2,000	2,000
28	Oct. 17	1. 00	213	do	do	Feed store		Water and High streets, Georgetown	1,000	1,000
29	Oct. 19	10. 00	415	Frame	False alarm	For tar barrel		Water street, s. w.		
30	Oct. 28	3. 12	126	do	do	Ice company				
31	Oct. 28	11. 35	73	Brick	Smoky flue					
32	Oct. 30	4. 04	123	do	Unknown	School-house	City	High and Market, Georgetown	400	400
33	Nov. 3	5. 52	123	Brick	False alarm					
34	Nov. 5	10. 59	52	Brick	Stove	Dwelling	Captain Gilliss	215 A street, s. e.	Slight	
35	Nov. 16	9. 56	512	Frame	Unknown	do	J. Taylor	7th and East Capitol streets	300	
36	Nov. 16	11. 14	128	Brick	Children—matches	Hotel	Barnes	1002 Pennsylvania avenue, n. w.	300	300
37	Nov. 16	1. 35	31	do	False alarm			II street, 20 and 21, n. w.	200	200
38	Nov. 18	7. 09	312	Frame	Forge	Blacksmith	L. P. Wright			
39	Nov. 20	9. 53	423	do	Coal oil	Dwelling	W. Riley	Alley, between 9th and 10th, s. w.		
40	Nov. 22	2. 09	712	do	Unknown	do	D. Jones	Fayette, above 3d and 4th, Georgetown	400	400

9	Nov. 22	10. 52	31	Brick	do	Restaurant	C. Douglass	Pennsylvania avenue, between 17th and 18th streets, n. w.	800
10 ⁹	Nov. 27	1. 10	27	do	Accident	do	T. Farencop	7th and R streets, n. w.	Slight
1	Dec. 3	6. 02	24	Frame	Coal oil	Dwelling	Mrs. Jackson	New Hampshire avenue, bet. M and N	do
2	Dec. 5	6. 20	314	do	Furnace	Hot-house	do	25th and E streets, n. w.	1, 200
3	Dec. 7	3. 15	512	do	Incendiary	Dwelling	W. B. Welkerden	18th street e., opposite jail.	600
4	Dec. 7	8. 09	127	do	Defective stove	do	Rev. Richardson	918 9th street, n. w.	150
5	Dec. 7	9. 16	137	do	do	do	do	Massachusetts avenue, between 9th and 10th.	Slight
6	Dec. 9	9. 39	412	do	Incendiary	Stable	M. Solomon	7th, between Maryland avenue and D, s. w.	600
7	Dec. 10	8. 45	13	do	Stove	Office	W. S. R. R.	1st and Maryland avenue, s. w.	100
8	Dec. 11	4. 26	612	do	do	Dwelling	G. Johnson	Massachusetts avenue, between 3d and 4th, n. e.	400
9	Dec. 12	11. 48	39	do	Spontaneous combustion.	do	J. Bradley	2133 L street, n. w.	250
10	Dec. 13	11. 22	126	Brick	False alarm	Opera-house	J. F. Ford	C and Louisiana avenue, n. w.	Slight
11	Dec. 15	9. 35	71	do	do	Dwelling	C. Meron	1300 9th street, n. w.	100
12	Dec. 16	5. 23	25	Frame	Gas jet	do	do	424 New York avenue	300
13	Dec. 18	8. 52	415	do	Stove pipe	do	do	do	300
14	Dec. 20	5. 28	23	do	Box ashes	do	do	do	300
15	Dec. 25	6. 13	512	do	False alarm	do	William Leeman	B, between 4th and 5th, s. e.	Slight
16	Dec. 25	2. 08	52	Frame	do	do	Captain Heintzelman.	14th, between N and O, n. w.	800
17 ¹⁰	Dec. 31	12. 45	141	Brick	Furnace	do	do	do	do
1	Jan. 1	9. 10	314	Brick	Unknown.	Dwelling	Washington Gas Company.	21st and H streets, n. w.	Slight
2	Jan. 2	12. 45	314	Oil tank	do	Oil works	do	G street wharf.	1, 500
3	Jan. 4	6. 32	17	Brick	do	Market-house	do	7th and B streets, n. w.	50
4	Jan. 12	1. 50	212	do	Matches—children	Dwelling	do	1125 N street, n. w.	Slight
5	Jan. 13	10. 50	612	Frame	do	do	C. Omera	225 C street, n. e.	do
6	Jan. 16	12. 21	523	do	do	Club-house	G. Langley	New York avenue	200
7	Jan. 19	12. 00	217	do	False alarm	Sheds	W. H. Copper	13th, near Q street, n. w.	Slight
8	Jan. 20	11. 34	214	Frame	Unknown	Dwelling	D. Harper	3519 O street, n. w.	do
9	Jan. 25	5. 50	712	do	Coal from stove	Warehouse	Littlefield	Corner 22d and D, n. w.	2, 000
10	Jan. 28	7. 13	314	do	Lime	Machine-shop	John McClelland	Corner Louisiana avenue and 10th, n. w.	1, 200
11 ¹¹	Jan. 31	2. 10	126	Brick	Explosion	Dwelling	Mrs. Baltimore	22d, between K and L, n. w.	Slight
1	Feb. 6	12. 20	39	Frame	Unknown	do	do	Corner 11th and G, n. w.	150
2	Feb. 8	11. 02	131	Chimney	Gas jet	Store	Gray & Noyes	Pennsylvania avenue, between 4th and 3d	800
3	Feb. 11	7. 08	121	Brick	Explosion	Foundry	Walker	3d and Maryland avenue, s. w.	150
4 ¹²	Feb. 12	11. 07	41	do	Freshet	Lime	do	10th, between Louisiana avenue and C, n. w.	2, 500
5	Feb. 12	7. 16	126	do	do	do	do	do	do
6 ¹³	Feb. 15	3. 09	721	Frame	Incendiary	Dwelling	M. Dyer	3502 M street, n. w.	500
1	Mar. 2	2. 42	212	Brick	do	Grocery store	Reed's	11th and Q streets, n. w.	1, 800
2	Mar. 4	6. 40	143	do	Defective flue	Store	O'Mears	15th and F streets, n. w.	1, 500
3	Mar. 4	6. 52	136	do	False alarm	do	do	10th and K streets, n. w.	1, 500
4	Mar. 8	6. 05	38	Chimney	do	Dwelling	do	do	Slight

¹ Three local fires.² Fireman Burroughs burnt.³ Loss, \$8,200; insurance, \$7,750.⁴ Child slightly burnt.⁵ Loss, \$150; insurance, \$150.⁶ Loss, \$850; insurance, \$500.⁷ Loss, \$3,500; insurance, \$3,500.⁸ Two children burnt to death, 6 and 9 years.⁹ Loss, \$2,000; insurance, \$900.¹⁰ Loss \$4,200; insurance \$3,000.¹¹ Loss \$3,750; insurance \$1,400.¹² Two men injured.¹³ Loss \$4,100; insurance \$4,100.

APPENDIX G 3.

TABLE A.—Detailed statement of fires, losses, &c.—Continued.

No. of fire	Date.	Hour.	Box.	Style of building.	Cause.	How occupied.	Owner or occupant.	Location.	Dam- age.	Insur- ance.
5	1881. Mar. 9	a. m. 4. 10	35	Frame	Incendiary	Dwelling		19th and D streets, n. w.	\$100	
6	Mar. 12	6. 34	315	Brick	Matches	Hospital		Pennsylvania avenue, between 24th and 25th.	200	
7	Mar. 14	3. 08	13	do	Stove	Dwelling		McDermott's alley, n. w.	Slight	
8	Mar. 18	2. 02	126	do	Defective flue	Offices		14th, between F and Pennsylvania ave- nue.	do	
9	Mar. 21	4. 29	62	do	do	Dwelling	M. Crayton	I street, between 1st and North Capitol	100	\$100
10 ¹	Mar. 24	8. 20	314	Frame	Coal oil	do	M. Smith	23d, between F and G, n. w.	100	
1	Apr. 1	10. 50	136	do	Incendiary	Restaurant	Mrs. Maguire	14th and E. n. w.	1,000	1,000
2	Apr. 3	11. 15	35	do	do	Dwelling	M. Sultavan	22d, near 6th, n. w.	400	
3	Apr. 5	2. 30	314	Brick	Chimney sparks	do	Pulaski	K, near 24th, n. w.	400	400
4	Apr. 6	4. 59	132	Frame	do	do	F. Johnson	C, near 14th, n. w.	Slight	
5	Apr. 10	1. 30	126	Brick	Smoky flue	Barber-shop	Coleman	8th and D	100	100
6	Apr. 11	8. 15	43	do	Hot ashes	Wood-sheds	E. McCaulley	F, between 4½ and 6th	100	100
7	Apr. 11	8. 30	41	Frame	Lamp explosion	Dwelling	E. Day	406 Tin-Cup alley	Slight	
8	Apr. 15	9. 19	72	Brick	do	School-house	City	25th and East streets, Georgetown	do	
9 ²	Apr. 19	10. 55	12	Frame	Defective flue	Dwelling	J. Lusby	3d and D, n. w.	100	100
1	Apr. 19	9. 00	39	Brick	Unknown	Brewery	Chris. Heinrich	22d and M street, n. w.	3,000	1,500
2	May 1	2. 45	121	do	Matches	Hotel	A. Brigazzi	Pennsylvania avenue, between 3d and 4½, n. w.	Slight	
3	May 4	5. 47	124	do	Explosion—gas	Dwelling		5th, between E and F streets, n. w.	do	
4	May 5	11. 48	56	Wood-sheds		Wood-sheds		do	do	
5	May 11	4. 05	121	Brick	Spontaneous combustion.	Coach-shop	McDermott's	Missouri avenue and 3d, n. w.	do	
6	May 25	2. 50	214	Frame	Matches—children.	Shed	H. James	1528 16th street, n. w.	100	100
7 ³	May 27	6. 40	731	do	Accident	Wheel-shop	J. Muntz	Water street, Georgetown	1,500	600
1	June 9	1. 59	126	Brick	Incendiary	Stable	George Wanback	Temperance alley	do	
2	June 12	9. 00	315	do	Cigar store	do	District govern- ment.	Pennsylvania avenue and 24th, n. w.	50	
3	June 15	3. 22	125	do	Incendiary	Fur-store	Rutherford	K street, near 7th, n. w.	1,200	
4	June 15	5. 11	52	Frame	Matches—children	Shed	Butt's	East Capitol, n. e.	20	
5	June 22	11. 55	214	do	Incendiary	Stable	Mrs. K. Whiting	Kinman place, n. w.	200	200
6 ⁴	June 30	12. 55	28	do	do	Baptist church		10th and V streets, n. w.	200	200

¹ Loss \$3,800; insurance \$3,100.² Loss \$2,100; insurance \$1,700.³ Loss \$4,600; insurance \$2,200.⁴ Loss \$1,670; insurance \$400.

TABLE B.—*Statistics of number of fires which occurred in the District of Columbia from the organization of the paid fire department to the present time.*

Year.	No. of fires.	Losses.	Year.	No of fires.	Losses.
1865	55	\$121,500	1874	109	\$99,500
1866	95	259,000	1875	132	68,000
1867	55	101,000	1876	121	40,230
1868	53	138,000	1877	131	*90,960
1869	87	153,090	1878	75	16,950
1870	127	118,000	1879	114	81,400
1871	97	200,000	1880	109	133,450
1872	95	141,000	1881	97	38,920
1873	139	161,500			

* Patent Office fire not included.

APPENDIX G 4.

REPORT OF SUPERINTENDENT OF FIRE-ALARM TELEGRAPH.

OFFICE FIRE-ALARM TELEGRAPH,
Washington, D. C., September 8, 1881.

GENTLEMEN: By direction of the honorable Commissioners of the District of Columbia, I have the honor to transmit, through you, my annual report of the current transactions of the fire-alarm telegraph for the fiscal year ending June 30, 1881; also, an estimate of the amount required for the support of this department for the fiscal year ending June 30, 1883; also, some suggestions for increasing the efficiency of this branch of the public service.

During the fiscal year covered by this report there were one hundred and seven alarms of fire by telegraph. In July, 1880, there were 15 alarms; August, 3; September, 6; October, 7; November, 10; December, 17; January, 1881, 11 alarms; February, 6; March, 10; April, 9; May, 7; June, 6. Total, 107.

During the year the old line of poles leading from Fifth and D streets northwest to and through Georgetown has been removed, and new ones substituted, at an expense of about \$1,000. The telephone service has also been greatly improved, by so increasing the number of talking-circuits that each fire company and the officers of the department are on separate wires, but so arranged that any two or more of the circuits can be united in the central office, thus connecting any or all of the circuits, as may be required. Magneto call-bells are used on these talking-circuits for calling the company or officers wanted, and give good satisfaction.

The fire-alarm telegraph covers portions of Washington and Georgetown, but quite an extensive portion of each are practically but little benefited by the fire-telegraph, as will more fully appear further on in this report.

The fire-telegraph aggregates about 200 miles in length of wire, divided into 23 circuits—11 metallic circuits and 12 ground circuits (the latter for telephone service). There are 80 signal-boxes and 22 gong and bell strikers.

The lines and instruments are in good order and continue to work in a very satisfactory manner.

The total expenditures for the fire-alarm service during the year

amount to \$6,928.62, including the salaries of superintendent and two operators.

To increase the efficiency of the fire-telegraph I recommend the introduction of not less than 75 additional signal-boxes, for the reason that the city has grown so rapidly that large areas are so remote from alarm-stations as to derive little or no benefit from the fire-telegraph. I do not deem it necessary to argue the matter; it must be apparent to all, and needs only to be mentioned by way of a reminder.

An additional operator and two repairmen should also be added to the force of this office, and I earnestly request that it be done, because of real necessity for such additional help.

The cost of procuring 75 additional signal-boxes and enlarging the circuits and putting in operation I estimate at \$15,000.

To defray the expenses of the fire-telegraph for the fiscal year ending June 30, 1883, provision should be made for—

Salary for one superintendent.....	\$1,800 00
Salary for three operators, at \$1,200 each	3,600 00
Battery supplies and new battery.....	1,800 00
Labor and repairs.....	2,500 00
Salary for two repairmen, at \$720 each.....	1,440 00
Gas-light	100 00
Fuel.....	40 00
Rent of office-rooms	300 00
Ice	30 00
Washing.....	30 00
Blacksmithing	30 00
Contingent expenses.....	300 00
Total	11,970 00

In conclusion, I desire to thank the Commissioners of the District of Columbia, also the commissioners, officers, and members of the fire department, for their courtesy and helpful co-operation in bringing this branch of publicservice to its present state of efficiency. My thanks are also due and tendered to Messrs. Richards and Noyes, the operators, and Thomas Parker, the repairman, for their efficient and faithful services since my last annual report. All of which is respectfully submitted.

I have the honor to be, gentlemen, your obedient servant,

HENRY R. MILES,

Superintendent Fire-alarm Telegraph.

The BOARD OF FIRE COMMISSIONERS

of the District of Columbia.

II.—REPORT OF THE ATTORNEY.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,

Washington, October, 1881.

GENTLEMEN: The business of this office for the past year consisted entirely of its usual routine duties, meeting the Commissioners for consultations, writing opinions as required, disposing of referred cases, and in attendance upon all the courts when in session, in care of the numerous cases to which the District is a party.

In noticing the further history of the cases referred to in the last report, I observe that the Strong cases still occupy the attention of our courts. As will be remembered, the two original cases were consoli-

dated and were tried together as one case till the memorable overthrow of Strong heretofore noted in these reports, after which they were severed, and it was the first of these, so long and faithfully tried by my assistant, Mr. Miller, aided by Mr. Carusi.

Since the last disaster described in my last report, Strong's counsel have endeavored to transfer the cases to the Court of Claims, under the act of Congress conferring upon it jurisdiction of claims against the District. Of the one untried in the District court, little doubt could exist of his right to remove it to that forum, if the District had not acquired rights by its set-off. It is clear, I think, that our court will retain jurisdiction of the other. Indeed, since the close of the year the court has denied Strong's motion to dismiss the case without prejudice.

The Young case remains as last reported, and is probably substantially disposed of in the District's favor.

The Morgan case was for work and labor on the James Creek Canal. The auditor reported in favor of the plaintiff, Morgan, the sum of \$3,224.47. On hearing our exceptions to the auditor's report, the court reduced this to \$3,049.92, which heads our list reported September 29, 1881, for estimates.

Browning vs. The District: On the second trial the District was again successful, and the plaintiff removed the case to the general term on exceptions, where it has not yet been reached.

The District vs. The Sureties of Lubey, late water registrar: Case awaiting trial in the circuit court. I trust the necessary statement of his accounts will be prepared so that the case can be tried. It will be remembered that the commencement of the suit was delayed for a statement of his accounts and was finally commenced in its absence. The case cannot be tried until this is furnished by the officers of the District to this office.

The District vs. The Johnsons, to recover rent of wharf at the foot of Thirteenth street west: The general term reversed our judgment in this case, which awaits retrial.

In the King case, a satisfactory disposition was made by the court, and sale of property ordered. It was found that to secure the rights of the District in the premises, certain legislation of Congress was needed, and the final closing out of the matter awaits the action of that body.

Of some later cases I observe:

The cases of the District against certain street railroads, on account of the work done by the late board of public works for paving, are now pending on demurrer to the declarations in the general term, to which they were certified without hearing by the court below.

New difficulties arose out of an opinion of this office concerning the application of the liquor-license law to the departments of the general government, furnished to the President on his request. This opinion was submitted to the Attorney-General, who never overruled it, but by tacit understanding all the heads of the departments, except the Postmaster-General, disregarded it, and this office held that in the absence of legislation by Congress, these departments might be regarded as other vacant property of the United States.

In the case of Miller & Jones, to compel the issue of a license to them to retail liquor in their building, a part of the National Theater, the chief justice held that they, not being owners or proprietors of the theater, were not within the ordinance prohibiting license. This leaves the licensing of bars in or near theaters by parties not interested as owners of theaters, within the discretion of the Commissioners, like other cases.

Mrs. Parker's case: The judgment in this case, though rendered within

the year, has already been paid, and suit is now pending against the Gas Company to recover the sum so paid, on well-established principles of law recognized and enforced by the United States in a similar case. We have already obtained a judgment against the Baltimore and Potomac Railroad Company, in a similar case, where the District was mulcted in damages. This case is now pending in the general term.

Thompson vs. The District was for a mandamus to compel the Commissioners to issue a draw back with ten per cent. interest to a certificate holder, and refused by MacArthur, justice.

Another suit by the same party, involving the same matter, is at the date of this report pending in general term. I entertain no doubt of the result.

The District vs. Forsyth (at one time deemed of the greatest importance), on trial resulted in the return of the missing books and papers, which were found to be of no great value.

McElligott vs. The District, is a case for injury to the person, in which he has recovered a verdict for \$3,000, and is now pending in the general term on our exceptions. It is one of those unfortunate cases in which a jury will always return a pretty heavy verdict for the plaintiff if the case is submitted to it.

Bailey vs. The District, judgment \$4,000, included in our late list of judgments, is another case of real merit for the plaintiff. The man was rendered totally and permanently helpless, under a condition of things which must have been due to negligence of a gross character on the part of an employé having charge of a highway. I should never expect a more favorable result, and should anticipate a larger verdict on another trial.

Of the new cases commenced, one is to test a patent right in use on the streets; several to test the liability of the District for alleged faults of Tiber Creek sewer, and sewers connected with it. Many other cases, some of importance, have been tried or otherwise disposed of.

Of the late list of judgments, as a whole, I may say that where the claims were litigated, they were zealously defended with all the means at my disposal, and are to be treated as judicially determined liabilities of the District. So in one or two no legal or equitable defense existed, and in this class of cases, where their true character is made to appear, this office interposes no hindrances, and this course has always met the approval of the Commissioners. To me, no other is honorable.

The whole number of civil cases disposed of during the current year is 18.

New cases commenced to which the District is a party, 25.

Whole number pending in the courts of record at the end of the year, 243; law, 115; equity, 128.

Many cases have claimed the attention of my assistants, generally Mr. Miller, before the justices of the peace, and the office has also looked after cases of condemnation of property for roads and highways. The cases appealed from the police court to the criminal court are numerous and perplexing.

The whole number disposed of since the last report is 148.

Appealed and docketed in the same time, 111.

Cases undisposed of at the end of the year, 108.

Amount collected on judgments, \$763.65.

This branch of the duties of the office devolves upon Mr. Miller. By present arrangement with the courts these cases will, as I trust, be disposed of with reasonable promptitude.

In the police court for the current year there have been tried 4,484 cases of all classes.

Whole amount of fines imposed, \$19,654.

The collections make no figure.

The police court is exclusively in the hands of Mr. Padgett, whose report is subjoined.

Of the strictly office business, mainly by the hand of the undersigned, 71 formal opinions have been rendered, covering 200 closely-written pages of the press copy book; to which should be added numerous cases upon the papers of which opinions are indorsed and of which no copies are retained.

There were also the current briefs made up and printed.

I have already furnished estimates for salaries and expenses.

Respectfully submitted.

A. G. RIDDLE,
Attorney, District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX H 1.

REPORT OF THE SPECIAL ASSISTANT ATTORNEY.

OFFICE OF THE ATTORNEY FOR THE DISTRICT OF COLUMBIA, *Washington, September 30, 1881.*

SIR: I have the honor to respectfully submit this, my report of cases tried in the police court during the year commencing July 1, 1880, and ending June 30, 1881:

Number of cases tried	4,484
Number of cases convicted	3,980
Number of cases dismissed	383
Number of cases dismissed, license produced	61
Number of cases continued	35
Number of cases nolle prosequi	25
Amount of fines imposed	\$19,654

The above cases consisted of the following kind and number of offenses, to wit:

Bar open after hours	4
Bar open on Sunday	39
Bathing in river	7
Concealed weapons	139
Contempt of court	12
Cow-yards	79
Cruelty to animals	18
Destroying private property	76
Destroying public property	9
Disorderly conduct	1,293
Disorderly conduct, Georgetown	129
Disturbing church	6
Driving over pavement	15
Driving through procession	12
Dropping load from cart	1
Enticing prostitution	2
Excavation without permit	7
Failing to remove snow	356
Fast driving	21
Fast driving over bridge	3
Fighting dogs	4

Firing pistol in street	15
Gift enterprise	1
Indecent exposure	74
Injuring trees	16
Making fire in street	4
Nuisances	60
Obstructing footway	15
Obstructing gutter	10
Obstructing street	49
Occupying street	6
Placing rubbish in street	19
Playing ball in street	6
Profanity	594
Refusing to assist officer	1
Removing sand from street	1
Selling light bread	1
Selling liquor to minors	2
Selling liquor to soldiers	1
Selling liquor on Sunday	6
Selling potatoes by measure	4
Setting off fire-crackers	2
Tapping sewer	1
Throwing stones	62
Trespass on park	57
Tying horse to tree	2
Unlawful bill-posting	1
Unlawful measures	2
Unlawful scales	1
Unlawful weights	1
Unlicensed apothecaries	2
Unlicensed bar	53
Unlicensed billiards	2
Unlicensed cattle dealers	4
Unlicensed commercial agents	12
Unlicensed exhibition	1
Unlicensed hotels	3
Unlicensed intelligence office	1
Unlicensed junk dealer	1
Unlicensed liquor dealers	3
Unlicensed livery stables	4
Unlicensed photographer	1
Unlicensed produce dealers	70
Unlicensed restaurants	8
Unlicensed wagons	1
Using street washer	5
Vagrancy	947
Violating building regulations	43
Violating cart law	25
Violating hack law	25
Violating market regulations	5
Washing carriages in street	2
Watering horses at pump	2

Very respectfully,

JAS. E. PADGETT,
Special Assistant Attorney, D. C.

A. G. RIDDLE, Esq.,
Attorney for the District of Columbia.

APPENDIX H 2.

OUTSTANDING JUDGMENTS AGAINST THE DISTRICT OF COLUMBIA.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,
Washington, September 29, 1881.

GENTLEMEN: I transmit herewith a list of the outstanding judgments against the District of Columbia.

Respectfully,

A. G. RIDDLE,
Attorney for the District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Name.	When obtained.	Amount.	Interest from—	Costs.
Thomas P. Morgan	Jan. 22, 1881	\$3,049 92	Oct. 7, 1879	\$104 70
Robert T. Johnson	Oct. 21, 1880	60 00	Oct. 21, 1880	8 70
John J. Shipman	Apr. 14, 1881	3,000 00	Apr. 14, 1881	25 30
The First National Bank of New York	Apr. 26, 1881	3,008 88	Aug. 26, 1872	21 00
Hugh Murray's administrator	Feb. 25, 1881	1,500 00	Feb. 25, 1881	40 65
Michael White	Apr. 18, 1881	750 00	Apr. 18, 1881	53 90
John N. Lee	May 31, 1881	746 00	May 31, 1881	14 75
Cornelius P. Bailey	Mar. 8, 1881	4,000 00	Mar. 8, 1881	159 90
Adolf Claus	Feb. 23, 1879	2,155 00	July 24, 1872	46 55

APPENDIX H 3.

ESTIMATES.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,
Washington, September —, 1881.

GENTLEMEN: I have the honor to transmit herewith estimates for this office for the fiscal year ending June 30, 1883:

For salary of attorney	\$4,000
For salary of first assistant attorney	2,400
For salary of second assistant attorney	1,200
For salary of clerk	1,200
For salary of messenger	200
Rent of office	300
Miscellaneous expenses	900

Respectfully,

A. G. RIDDLE,
Attorney for the District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

I.—REPORT OF THE CORONER.

CORONER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, D. C., September 13, 1881.

GENTLEMEN: In compliance with your request of August 15, I have the honor to inclose estimate of amount required for the support of this department for the fiscal year ending June 30, 1883; also tabular statement of the transactions of this office for the year ending June 30, 1881.

Very respectfully,

D. C. PATTERSON,
Coroner.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX I 1.

ESTIMATE.

Estimate of sums required for the support of the coroner's office for the year ending June 30, 1883.

For salary of coroner.....	\$1,800 00
For contingent expenses, including books, blanks, stationery, payment of coroner's jurors, and autopsies	700 00
Total	2,500 00

Respectfully submitted.

D. C. PATTERSON,
Coroner.

APPENDIX I 2.

Tabular statement of deaths certified by the coroner during the year ending June 30, 1881.

Wilful violence:	
Suicide:	
By incised wounds.....	2
By irritant poison.....	3
By narcotic poison.....	1
By drowning.....	2
By hanging.....	2
By jumping from window.....	1
Homicide:	
By gunshot wounds.....	3
By punctured wounds.....	1
By weapons and missiles.....	5
By infanticide.....	9
By neglect at birth.....	11
Accidents and negligence:	
Burns.....	3
Crushed by elevator.....	1
Drowning.....	11
Exposure to cold.....	2
Fracture of neck.....	3
Fracture of skull.....	2
Fracture of spine.....	1
Gunshot wounds.....	5
Irritant poison.....	1
Narcotic poison.....	1
Overlaid by mother.....	6
Premature birth.....	2

Run over by railroad cars, &c	11
Rupture of liver	1
Still births (known)	20
Still births (unknown)	31
Sunstroke	2
Tetanus traumatic	1
Umbilical hemorrhage	3
Diseases :	
Abscess, scrofulous	1
Aneurism of aorta	1
Angina pectoris	2
Apoplexy	16
Asthenia	6
Bright's disease	2
Bronchitis, capillary	29
Bronchitis, chronic	4
Cancer of breast	1
Cholera infantum	19
Cholera morbus	2
Colic	1
Congestion of brain	5
Congestive chill	3
Congestion of lungs	22
Convulsions, infantile, and trismus nascentium	45
Convulsions	3
Croup	10
Debility, congenital	48
Debility, senile	13
Dentition	1
Diarrhœa	24
Diphtheria	1
Dropsy	2
Dropsy of heart	2
Dysentery	1
Embolism	2
Epilepsy	2
Fever, intermittent	3
Fever, typhoid	1
Gastritis	1
Hemorrhage of bowels	2
Hemorrhage of lungs	12
Hemorrhage, uterine	2
Heart disease	18
Hernia, strangulated	1
Hydrocephalus	2
Inanition	14
Intussusception	2
Measles	1
Metro-peritonitis	1
Paralysis	2
Peritonitis, puerperal	3
Phthisis pulmonalis	35
Pleuritis	1
Pleuro-pneumonia	1
Pneumonia	27
Rupture of renal artery	1
Tabes mesenterica	1
Uræmia	1
Total suicides	11
Total homicides	9
Total infanticides, &c	20
Total by accidents and negligence	107
Total by disease	400
Total of all cases certified by the coroner	547

Whole number of white deaths, 158=29.15 per cent.
 Whole number of colored deaths, 384=70.85 per cent.
 Color unknown, 5.

Occupation.

Actuary	1	Hostler	1
Agent	1	Housekeeper	15
Barber	3	Huckster	2
Blacksmith	2	Laborer	44
Boarding-house-keeper	1	Laundress	4
Bookkeeper	1	Manufacturer	1
Brakeman	1	Messenger	2
Brewer	1	Molder	1
Bricklayer	2	Painter	2
Butcher	2	Pedler	1
Carpenter	1	Physician	1
Cigarmaker	1	Plasterer	1
Clerk	1	Professor of music	1
Coal dealer	1	Prostitute	2
Cook	1	Publisher	1
Draftsman	1	Restaurant keeper	2
Dressmaker	2	Sailor	2
Druggist	2	Seamstress	3
Engineer	1	Servant	16
Farmer	1	Shoemaker	2
Fireman	3	Soldier	9
Fresco painter	1	Student	1
Gardener	3	Switchman	1
Grocer	3	Watchman	1
Hack driver	1	Remaining	393

Nativity:

District of Columbia	372
Other parts of the United States	133
Ireland	25
Germany	12
England	2
France	1
Belgium	1
Unknown	1

Social relation, above the age of 20 years.

Sex and color.	Widow or widower.	Married.	Single.	Total.
White, male	3	35	20	58
White, female	14	18	7	39
Colored, male	5	23	20	48
Colored, female	17	22	7	46

Recapitulation.	Total deaths.	White.		Colored.	
		Male.	Female.	Male.	Female.
Zymotic diseases	80	11	6	29	36
Constitutional diseases	50	4	10	23	13
Local diseases	201	31	15	78	77
Developmental diseases	74	11	11	23	29
Violence	86	33	15	21	17
Still births	51	8	5	22	16
Unknown	5				
Total	547	96	62	196	188

Age.	White.	Colored.	Total.
Under 1 month.....	22	93	115
Between 1 month and 1 year.....	11	89	100
1 to 5 years.....	3	54	57
5 to 10 years.....	4	6	10
10 to 20 years.....	7	7	14
20 to 30 years.....	11	18	29
30 to 40 years.....	28	27	55
40 to 50 years.....	18	13	31
50 to 60 years.....	16	10	26
60 to 70 years.....	14	7	21
70 to 80 years.....	9	8	17
80 to 90 years.....	2	8	10
90 to 100 years.....	2	3	5
Over 100 years.....		1	1

Monthly mortality.

July.....	61
August.....	36
September.....	64
October.....	47
November.....	42
December.....	37
January.....	37
February.....	46
March.....	43
April.....	51
May.....	37
June.....	46

I certify the foregoing statement is correct.
D. C. PATTERSON, M. D.,
Coroner, District of Columbia.

K.—REPORT OF THE MAJOR OF POLICE.

DEPARTMENT OF METROPOLITAN POLICE,
OFFICE OF THE MAJOR AND SUPERINTENDENT,
Washington, D. C., September 1, 1881.

GENTLEMEN: I have the honor to present this the twentieth yearly report of the condition and operations of the Metropolitan police force of the District of Columbia for the year ended 30th June, 1881, being a classified statement showing the disposition of the force by precincts, time lost by sickness and other causes, number of arrests, according to sex, in the several precincts, the ages of males and females thus arrested, their nationality, trade, or occupations, with other information having reference to the routine duties of this department; the report of the board of surgeons, sanitary officer, and property clerk; property at headquarters and in each of the stations; estimates of the amount of money required for the support of the department during the fiscal year ending 30th June, 1883, said estimates being based on the number of the force as at present authorized by law, with various suggestions and recommendations which in my opinion will tend to the welfare and better protection of the community and add to the efficiency of this department.

INCREASE OF THE FORCE.

In connection with this subject, one of vital importance to the welfare of our community, I can do little more than repeat the numerous reports and recommendations made in previous annual reports on the same.

The Board of Commissioners are doubtless as well aware of the insufficiency in numbers of the present force as I am, but in view of the serious responsibility of this department in all matters connected with the protection of lives and property jeopardized by such deficit, I must again state that no amount of vigilance, or the greatest possible efficiency, can make up for the shortage in this respect.

A policeman, like any other man, can do no more than his best. I am satisfied that every member of the force is striving to that end. Anything short of such exertion is soon discovered, and the proper remedy applied, but yet it is impossible for the present number of patrolmen to give due protection to the lives and property under their guardianship.

When the present number of patrolmen was authorized, the population of this District was 88,879; it is now more than double that number. The value of property belonging to citizens and the general government has increased in greater proportions, but without any corresponding increase in the number of policemen to guard such enlargement.

I would, therefore, earnestly recommend that the force be increased by the addition of one captain (as night inspector), seven sergeants, two hundred and fifty privates or patrolmen.

STATION HOUSES.

Of the eight station houses in use by this department, only three, viz, the third, fourth, and eighth precincts are owned by the District. Being built for the purpose, they are the only ones fit for that service, the others being defective in many very essential points; the prisoners' cells, water closets, and lodgers' rooms being too near the sleeping rooms of the officers and privates, very often causing loss of rest and sleep to the tired patrolmen and sergeant. It is also found very difficult to prevent foul orders emanating from said cells and rooms, especially at night when occupied by prisoners and lodgers. Another very great defect is the faultiness of the drainage; a fault which cannot be overlooked as it causes sickness and consequent loss of service in a force so unable to bear it, in which the absence from duty of even one man is seriously felt.

I cannot too strongly recommend that the system of renting private dwellings for station-house purposes be abandoned, and that structures built and owned by the District take the place of the ones now rented.

INFIRM MEMBERS OF THE FORCE.

I beg leave to renew my former recommendation in regard to members of the force whose efficiency has been seriously impaired by their many years of active duty. They have been faithful and untiring in the performance of the work assigned to them, and are willing to-day to attempt, at least, the same amount of duty which the younger and more able-bodied men are better able to execute. But their age renders their service to a certain degree inefficient, and their places should be filled by men whose quick, sharp perceptions are needed in the prevention of

crime and in the detection of the criminals when crime has been committed. At the same time it would be a positive wrong to remove these men, after twenty years' faithful service, without making some provision for their old age. This matter is one that requires earnest attention, and I again respectfully recommend that provision be made for the retirement of such members of the force as are incapable of performing thorough police duty, whether such incapacity be caused by long service or disabled in the line of duty.

When this is done the *personnel* of the force will be greatly improved.

In connection with this subject the following table exhibits the year of appointment of the 200 privates at present constituting the patrolmen of the force:

1861.....	13	1873.....	11
1862.....	4	1874.....	5
1863.....	1	1875.....	16
1864.....	8	1876.....	7
1865.....	2	1877.....	3
1866.....	7	1878.....	22
1867.....	19	1879.....	13
1868.....	8	1880.....	17
1869.....	12	1881.....	4
1870.....	8		
1871.....	13		
1872.....	7		
			200

DISCIPLINE OF THE FORCE.

The superintendent confidently believes that the discipline of the force will compare favorably with that of any similar organization in the country. In the maintenance of the rules and regulations laid down for our guidance, seventy-four members of the force were cited before the trial board during the past year, for violations thereof, viz:

For desertion.....	1
Gross neglect of duty.....	6
Insubordination.....	1
Intoxication.....	3
Intoxication on duty.....	5
Neglect of duty.....	13
Miscellaneous violation of rules and regulations.....	45
	74

DISPOSITION OF POLICE TRIALS.

Cautioned.....	2
Charges dismissed.....	23
Dismissed the force.....	5
Dismounted and transferred.....	1
Fined \$5.....	6
Fined \$10.....	2
Fined \$10 and reprimanded.....	2
Fined \$20.....	1
Fined \$25.....	3
Fined \$25 and reprimanded.....	2
Fined \$50 and reprimanded.....	1
Reduced to lowest grade of private.....	3
Reprimanded.....	1
Required to pay their debts.....	22
	74

ST. ANN'S ASYLUM.

During the past year, as in previous ones, this department has been greatly indebted to the ladies of St. Ann's Asylum.

Kindly and readily were the numerous waifs of humanity, thrown by

unfeeling parents on the mercy of the world, received by them, thereby relieving us from what, though not very large, would, in many cases, prove a serious responsibility.

I would recommend that measures be taken to reimburse the asylum for the time, care, and expense thus voluntarily given.

CHARITY.

Under this heading I would state that this office received from the "appropriation for relief of the worthy poor," during the past year, \$400. This small amount was carefully expended or distributed to parties actually suffering for lack of the necessities of life.

The past winter being unusually long and severe, the suffering of our poor was large in proportion, and numerous cases of destitution were brought to the attention of the police, in which we were unable to afford relief.

In this emergency our citizens, ever prompt to the call of suffering, whether in this city or elsewhere, called a meeting for the purpose of considering what means could be taken to decrease and relieve the wants of the poor in our midst. The call was heartily responded to, and during the past winter \$11,751.33 was contributed as the result of such call.

This large amount was expended and distributed through and by this department under the control of the honorable commissioners.

As to the manner in which this department expended and distributed the above amount, allow me to copy the report of a committee appointed by Judge A. B. Hagner for that purpose:

Messrs. REGINALD FENDALL, F. B. MCGUIRE, and LEWIS J. DAVIS:

GENTLEMEN: The Commissioners of the District of Columbia, to whom was intrusted the disbursement of the funds collected for the relief of the poor under a resolution passed at the Willard Hall meeting, in January last, have notified the undersigned that their accounts of receipts and expenditures are ready for examination, and have requested the appointment of a committee of citizens for that purpose.

You have been selected as gentlemen who, it is believed, will be willing to give a part of your time to the public to perform this service.

We hope you will be able to make the requisite examination, and report the result in such form as may be published in the newspapers.

We are, gentlemen, with much respect, your obt. servants,

A. B. HAGNER, *Chairman*.

JNO. A. BAKER, *Secretary*.

WASHINGTON, D. C., June 25, 1881.

Hon. A. B. HAGNER, *Chairman*; JOHN A. BAKER, Esq., *Secretary*:

GENTLEMEN: The committee appointed by you to audit the accounts of the Commissioners of the District of Columbia, in respect to the collection and distribution of the contributions for the relief of the poor and suffering of the District of Columbia, of last winter, respectfully report that they have examined the statement and vouchers submitted by the Commissioners, through their agent, the Chief of Police, and find from the same that the sum of \$11,751.33 was received and that the sum \$11,751.83, or fifty cents in excess of receipts, was expended in a most efficient and satisfactory manner. They also find that in addition to the cash receipts a considerable quantity of supplies in the form of food, fuel, clothing, and bedding was contributed and distributed.

As this fund and the other contributions were the spontaneous expression of sympathy with, and desire to relieve, the sufferings of the poor unprepared for the trials of a severe winter, and as good was accomplished to an extent disproportionate to the facilities afforded those managing the contributions, upwards of 6,000 families having been relieved, we deem it a matter of some interest to refer to the admirable method adopted by the Commissioners in distributing relief over a large field, and to the relative demands made by the necessitous in the future.

Major Brock, the Chief of Police, directed his men to examine into the wants of the poor in their respective precincts, and upon reporting the necessities of the individual, an order, signed by the lieutenant of the precinct, was given for whatever was most needed in the special case, which order was supplied by the merchant to whom it was

presented and returned by him to the lieutenant who issued it, he tested it, and it was then paid by the Chief of Police.

By this method every dollar was dedicated to its mission, and the strictest integrity insured in carrying out the trust imposed upon the Commissioners.

The relative necessities of the poor last winter are shown by the following tabular statement of the expenditure of the fund, and may furnish a future guide for the charitable who may make contributions of articles instead of money.

The amount of cash contributed was \$11,751.33, which was distributed thus:

Groceries	\$6,087 06
Fuel.....	5,266 46
Boots and shoes	142 60
Cash in small amounts	128 97
Cartage of coke.....	80 00
Dry goods and bedding.....	46 74
Overpaid	50
	11,751 83

In conclusion, we take pleasure in congratulating the charitable upon the suffering they relieved by their generous and spontaneous response, and we beg leave to commend Maj. Wm. G. Brock, Chief of Police, for the admirable method he adopted, and which, with the aid of his officers and men, he so efficiently executed.

Very respectfully, your obedient servants,

REGINALD FENDALL,
F. B. McGUIRE,
LEWIS J. DAVIS,
Committee.

EMERGENCY HOSPITAL.

This institution was opened July 16, 1881, and is connected with the Central Free Dispensary.

Even at this early day this hospital promises to be of the greatest benefit to the community and assistance to this department.

FISH LAW.

The act of Congress relative to the protection of the Potomac fisheries in the District of Columbia, and for the preservation of shad and herring in the Potomac River, approved April 6, 1880, made no provision for defraying the expenses which must occur in the enforcement of its provisions; there was no appropriation made for the same object during the fiscal year just ended; until some arrangement is made whereby this department may have the use of a steam launch, I will be practically unable to see that none of the sections of said law are violated.

I would respectfully recommend that the Commissioners urge on Congress the necessity of providing this department with the means of enforcing the law in this respect.

DARK ALLEYS.

During the year there were 73 lamps placed in the alleys that most required light, leaving about 60 to be provided for in this respect.

This is of the greatest assistance to police surveillance, by greatly reducing the opportunities for committing crime and preventing fugitives from justice finding hiding places therein, as well as enabling the patrolman to give the time heretofore required in the oversight of these alleys to the streets and avenues of our city.

I respectfully recommend that the alleys not yet furnished with lamps be supplied with them as soon as possible.

REFORMATORY FOR GIRLS.

There are in Washington, as in other large cities, a number of young girls whose moral tendencies are bad. There are others who, through

some cause, have made an erring step and are on the downward road. Many of these could be rescued from the life they are leading, and become respectable members of society, if there was only some institution in which they could be placed and where they would be surrounded by good influences; where they could be guarded from temptation, and their higher interests cared for. I but repeat what I have said in my previous reports when I recommend the establishment of such a reformatory institution in this city. It is necessary, it is due to the city, to the unfortunate girls, and to humanity. Its lack is working harm; its establishment could not but be productive of good. All those consigned to its protecting care might not be reformed, but I am sure that the proportion would be amply sufficient to justify any effort which might be made in this direction.

DETAILS.

In conclusion, gentlemen, permit me to state that in my opinion, and until the force is largely increased, this department should not be burdened with large and permanent details for other, and in some cases, duty not coming strictly under the head "legitimate police service."

I need not go into a statement as to where such details are, and why they were made at first, as doubtless the Commissioners have full knowledge on the subject, but from my experience of the needs of the service and the urgent necessity that every available man on the force should give his whole time and attention to police patrol or street duty, I earnestly recommend that every permanent detail be abolished and that the men thus relieved return to their precincts for active police service.

I heartily thank you for the uniform kindness extended to every member of this department during the year, and recommend to your favorable consideration the various suggestions of the sanitary officer.

Respectfully submitted.

WM. G. BROCK,
Major and Superintendent.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Estimates for fiscal year ending June 30, 1883.

PAY-ROLL.	
Major and superintendent	\$2, 610 00
Captain and inspector	1, 800 00
Property clerk	1, 800 00
1 clerk	1, 500 00
1 clerk	1, 200 00
3 surgeons, at \$450 each	1, 350 00
6 detectives, at \$1,320 each	7, 920 00
10 lieutenants, at \$1,200 each	12, 000 00
20 sergeants, at \$1,140 each	22, 800 00
7 acting sergeants, at \$1,080 each	7, 560 00
120 privates (class 2), at \$1,080 each	129, 600 00
73 privates (class 1), at \$900 each	65, 700 00
16 station-keepers, at \$516 each	8, 256 00
8 laborers, at \$420 each	3, 360 00
3 telephone operators, at \$780 each	2, 340 00
1 messenger	700 00
1 messenger	500 00
2 drivers, at \$300 each	600 00
1 ambulance driver	600 00
Major and superintendent (mounted service)	360 00
Captain and inspector (mounted service)	240 00
50 lieutenants, sergeants, and privates (mounted service), at \$240 each...	12, 000 00
Total pay-roll.....	284, 796 00

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 105

Rent of station-houses and headquarters	5,960 00
Fuel	1,500 00
Repairs to station-houses.	1,500 00
Miscellaneous expenses, including stationery, gas, telegraphy, ice, washing, meals for prisoners, photographs, printing and binding, rent of telephones, expenses of ambulance and team, expenses incurred in detection and prevention of crime, for furniture and repairs to same, for police equipments and repairs to same, ammunition, beds, and bedding, and contingencies	13,800 00
In all	307,556 00

Statement of money and estimated value of property taken into possession of the Metropolitan Police, and delivered to owners and property clerk, during year ending June 30, 1881.

Date.	Detective corps.	First precinct.	Second precinct.	Third precinct.	Fourth precinct.	Fifth precinct.	Sixth precinct.	Seventh precinct.	Eighth precinct.
July	\$560 50	\$539 47	\$455 75	\$182 22	\$681 00	\$597 68	\$207 49	\$680 84	\$819 11
August....	717 93	716 67	1,308 61	745 25	708 12	850 06	163 40	638 99	1,277 26
September	400 83	656 50	246 37	4,864 63	317 53	801 98	399 82	1,449 98	454 93
October...	731 65	999 94	1,017 82	600 45	107 83	3,424 97	915 75	553 63	381 86
November.	739 00	1,184 98	611 77	407 59	784 20	1,526 79	1,074 49	1,097 33	1,353 18
December.	780 51	297 54	719 51	158 66	742 69	1,400 53	654 75	1,471 31	921 99
January...	2,780 45	426 85	494 09	896 61	531 83	1,799 76	643 00	1,395 64	634 38
February..	1,557 00	336 50	174 26	615 12	1,123 14	1,485 13	878 51	691 72	412 94
March.....	735 49	1,049 87	1,046 72	679 95	2,085 81	3,141 86	560 31	1,278 36	393 67
April	1,087 00	238 62	345 75	437 55	307 41	3,475 53	99 15	1,956 25	175 02
May	1,001 68	423 44	761 34	561 86	1,331 39	1,581 89	238 57	1,051 80	331 15
June	1,142 79	209 62	514 65	439 82	396 62	2,387 38	383 16	1,239 97	263 60
Total....	12,234 83	7,080 00	7,696 64	10,589 71	9,117 57	22,473 56	6,818 40	13,505 82	7,419 09

Total amount, \$96,935.62.

WM. J. DUNIVAN,
Property Clerk, Metropolitan Police District.

APPENDIX K 1.

TABLE OF ARRESTS, ETC.

No. 1.—Table showing the disposition of the force.

Precincts.	Major and super-intendent.	Captain and inspector.	Lieutenants.	Sergeants.	Acting sergeants.	Privates.	Detailed.	Vacancies.	Total.
First			1	3	1	23	3		31
Second			1	2	1	17			21
Third				3		13	2		23
Fourth			1	3		17	3		24
Fifth			1	2	2	21	4		30
Sixth			1	2	1	19	2		25
Seventh			1	2	1	27	7		38
Eighth			1	3	1	26	3		34
Night inspector			1						1
Police court	1	1							2
Detectives			1			6			7
Sanitary						1			1
Total.....	1	1	10	20	7	175	24		238

No. 2.—Table showing time lost by sickness and other causes.

Precincts.	Sick.	With leave.	Without leave.	Days.
First.....	315	188	11	514
Second.....	469	226	3	698
Third.....	571	190	.....	761
Fourth.....	246	146	7	399
Fifth.....	863	131	2	996
Sixth.....	497	103	12	612
Seventh.....	486	263	9	758
Eighth.....	506	196	4	706
Detectives.....	12	9	.....	21
Sanitary.....	.....	.....	.....	.....
Total.....	3,965	1,452	48	5,465

No. 3.—Table showing number of arrests in each precinct.

Precincts.	Males.	Females.	Total.
First.....	1,360	484	1,844
Second.....	896	198	1,094
Third.....	1,048	184	1,232
Fourth.....	1,191	133	1,324
Fifth.....	3,028	570	3,598
Sixth.....	894	167	1,061
Seventh.....	2,041	267	2,308
Eighth.....	969	156	1,125
Sanitary.....	.....	.....	.....
Detectives.....	314	42	356
Total.....	11,741	2,201	13,942

No. 4.—Table showing the ages of the males arrested, classified.

Precincts.	From 10 to 20.	From 20 to 30.	From 30 to 40.	40 and over.	Total.
First.....	222	501	296	341	1,360
Second.....	288	254	147	207	896
Third.....	152	319	243	334	1,048
Fourth.....	241	355	248	347	1,191
Fifth.....	515	1,077	772	664	3,028
Sixth.....	272	309	152	161	894
Seventh.....	273	627	500	641	2,041
Eighth.....	228	269	201	271	969
Sanitary.....	.....	.....	.....	.....	.....
Detectives.....	92	139	56	35	314
Total.....	2,283	3,842	2,615	3,001	11,741

No. 5.—Table showing the ages of the females arrested, classified.

Precincts.	From 10 to 20.	From 20 to 30.	From 30 to 40.	40 and over.	Total.
First.....	53	251	114	66	484
Second.....	69	54	41	35	199
Third.....	26	67	43	48	184
Fourth.....	30	31	23	49	133
Sixth.....	104	270	138	58	570
Seventh.....	59	51	29	28	167
Eighth.....	42	93	93	39	267
Tenth.....	29	45	48	34	156
Detectives.....	23	11	3	4	41
Total.....	435	873	532	361	2,201

No. 6.—Recapitulation of offenses classified.

Offenses against the person.	Males.	Females.	Total.
Adultery	1		1
Assault	274	83	357
Assault and battery	1,044	294	1,338
Assault and battery with intent to kill	64	19	83
Assaulting policemen	27	2	29
Attempt at rape	6		6
Affray	147	18	165
Abduction	1		1
Blackmailing	3		3
Bribery	1		1
Bigamy	2	1	3
Conspiracy	2	1	3
Contempt of court	92	27	119
Carrying concealed weapons	141	5	146
Disorderly conduct	706	208	914
Deserters	38		38
Fighting in the streets	40		40
Fast driving	25		25
Fugitives from justice	53	8	61
Fugitives from parents	25	12	37
Fugitives from reform school	22		22
Fugitives from insane asylum	10		10
Habitual drunkenness	2		2
Intoxication	3,632	315	3,947
Intoxication and disorderly	410	116	526
Idle and incorrigible	14		14
Insanity	33	12	45
Indecent exposure	70	3	73
Interfering with policemen	6		6
Infanticide	1	1	2
Keeping bawdy house		13	13
Keeping disorderly house	6	12	18
Keeping gambling house	5		5
Keeping policy shop	16		16
Miscellaneous misdemeanors	54	5	59
Murder	9		9
Mayhem	2		2
Passing counterfeit money	1	1	2
Perjury	5	2	7
Profanity	390	144	534
Picking pockets	6		6
Rape	13		13
Rioting	2		2
Resisting officer	11	1	12
Robbery	3		3
Sodomy	2		2
Threats of violence	243	138	381
Vagrancy	564	295	859
Witnesses for the United States	91	49	140
	8,315	1,785	10,100

No. 7.—Recapitulation of offenses classified.

Offenses against property.	Males.	Females.	Total.
Arson	2		2
Burglary	30	1	31
Buying stolen goods	3		3
Cruelty to animals	21		21
Destroying private property	60	9	69
Destroying public property	20		20
Embezzlement	19		19
Forgery	11		11
Fraud	3		3
Gambling	8		8
Grand larceny	86	22	108
Highway robbery	9		9
Housebreaking	1		1
Malicious mischief	68	6	74
Obtaining goods or money by false pretenses	21	49	70
Petit larceny	778	88	866
Passing counterfeit money	1	2	3
Picking pockets	1		1
Robbery	7		7
Receiving stolen goods	15	8	23
Suspicion	567	54	621
Trespass	82	5	87
Violation of United States Revenue law	1		1
Violation of United States Pension law	1		1
Violation of District Ordinances	1,611	172	1,783
	3,426	416	3,842

108 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

No. 8.—Nativity of those arrested classified.

Nativity.	Number.	Nativity.	Number.
United States, white.....	6, 290	Algiers.....	2
United States, colored.....	5, 678	Russia.....	4
Ireland.....	1, 180	Australia.....	2
Germany.....	508	Austria.....	5
England.....	106	Norway.....	5
Scotland.....	39	Poland.....	1
France.....	33	Cuba.....	1
Italy.....	42	Wales.....	2
Denmark.....	7	Hungary.....	2
Canada.....	10	China.....	1
Switzerland.....	10		
Sweden.....	11	Total.....	13, 942
Persia.....	3		

No. 9.—Table showing trades and calling of persons arrested.

Occupation.	Number.	Occupation.	Number.
Artists.....	9	Grocers.....	54
Apprentices.....	6	Gardeners.....	45
Auctioneers.....	18	Gamblers.....	7
Agents.....	124	Gilder.....	1
Architects.....	2	Horseshoers.....	10
Actors.....	10	Hackmen.....	50
Boat-builder.....	1	Hotel-keepers.....	13
Bootblacks.....	70	Hucksters.....	225
Boatmen.....	28	Housekeepers.....	648
Barbers.....	87	Hostlers.....	25
Barkeepers.....	135	Harness-makers.....	17
Blacksmiths.....	147	Janitors.....	3
Bricklayers.....	160	Jewelers.....	20
Brickmakers.....	8	Junk-shop keepers.....	17
Butchers.....	118	Laborers.....	4, 149
Bakers.....	58	Lawyers.....	78
Bookbinders.....	14	Livery-stable keepers.....	7
Brewers.....	9	Locksmiths.....	2
Broom-makers.....	3	Laundresses.....	9
Boiler-makers.....	5	Liquor-dealer.....	1
Builders.....	2	Lithographers.....	2
Brokers.....	10	Merchants.....	203
Brass-finishers.....	3	Machinists.....	85
Butter-dealers.....	2	Musicians.....	24
Carpenters.....	311	Millers.....	7
Clerks.....	746	Messengers.....	33
Cigar-makers.....	43	Magistrates.....	2
Confectioners.....	6	Mariners.....	4
Contractors.....	33	Molders.....	18
Coach-makers.....	5	Masons.....	13
Cabinet-makers.....	25	Ministers.....	4
Constables.....	10	Marines.....	31
Coopers.....	13	Newsboys.....	112
Clock-makers.....	10	Pilot.....	1
Cooks.....	40	Oystermen.....	2
Coppersmith.....	1	Policy-writers.....	6
Cattle-brokers.....	27	Peddlers.....	61
Coachmen.....	5	Printers.....	227
Cutler.....	1	Physicians.....	44
Dentists.....	3	Plasterers.....	95
Dressmakers.....	4	Prostitutes.....	727
Dairymen.....	77	Painters.....	283
Drovers.....	10	Pavers.....	18
Dyers.....	2	Policemen.....	16
Druggists.....	14	Pattern-makers.....	2
Drivers.....	238	Plumbers.....	88
Draughtsmen.....	5	Photographers.....	10
Editor.....	1	Porters.....	31
Engineers.....	36	Paper-hangers.....	4
Engravers.....	16	Paper-makers.....	4
Florists.....	6	Produce-dealers.....	5
Feed-dealer.....	1	Restaurant-keepers.....	67
Fishermen.....	22	Ragpickers.....	31
Farmers.....	173	Riggers.....	4
Firemen.....	9	Reporters.....	46
Fish-dealer.....	1	Salesman.....	1
Gasfitters.....	2	Stenographers.....	6
Gunsmith.....	1	Soldiers.....	222

No. 9. —Table showing trades and calling of those arrested—Continued.

Occupation.	Number.	Occupation.	Number.
Servants.....	646	Thieves.....	447
Shoemakers.....	137	Tinkers.....	7
Silver-platers.....	3	Tobacconist.....	1
Stone-cutters.....	95	Undertakers.....	2
School-teachers.....	7	Unknown.....	555
Sailors.....	218	Upholsterers.....	20
Students.....	23	Vagrants.....	38
Sailmakers.....	12	Wheelwrights.....	5
Seamstresses.....	4	Watchmen.....	33
Storekeepers.....	78	Weaver.....	1
Schoolboys.....	450	Waiters.....	118
Schoolgirls.....	32	Woodturners.....	5
Scavengers.....	3	Whitewashers.....	3
Tailors.....	60	Watchmakers.....	9
Teamsters.....	12		
Tinners.....	69	Total.....	13, 942
Telegraphist.....	1		

DISPOSITION OF CASES.

Number of cases in which fines were imposed.....	3, 208
Amounting to.....	\$32, 133 78
Amount paid in United States cases.....	5, 695 23
Amount paid in District of Columbia cases.....	9, 672 14
United States cases appealed.....	1, 010 00
District of Columbia cases appealed.....	4, 974 00
Dismissed.....	6, 839
Surrendered to military authority.....	2
Surrendered to naval authority.....	30
Surrendered to Virginia authority.....	5
Surrendered to Maryland authority.....	13
Surrendered to reform school.....	19
Surrendered to United States marshal.....	26
Surrendered to insane asylum.....	31
Surrendered to workhouse.....	24
Surrendered to parents or guardians.....	52
Sent to jail.....	966
Sent to workhouse.....	1, 613
Sent to House of Good Shepherd, Baltimore, Md.....	2
Sent to reform school.....	44
Sent to insane asylum.....	3
Bonds to keep the peace.....	237
Bonds for grand jury.....	117
Bonds personal.....	215
Appealed from police court.....	121
Not disposed of.....	114
Nol. pros. entered.....	210
Miscellaneous dispositions.....	40
Sentence suspended.....	11
Grand total.....	13, 942

RECAPITULATION.

Total number of arrests.....	13, 942
Males.....	11, 741
Females.....	2, 201
Married.....	5, 101
Single.....	8, 841
Could read and write.....	10, 071
Could not read and write.....	3, 871

Offenses against the person were committed by 8,315 males and 1,785 females.

Offenses against property were committed by 3,426 males and 416 females.

INCIDENTALS.

Attempted suicide.....	8
Accidents reported.....	258
Assistance rendered.....	337
Abandoned infants found.....	23
Dead infants found.....	62
Dangerous holes in carriageways and sidewalks.....	580
Doors found open and secured.....	265
Dead animals reported.....	1, 829
Deaths where coroner was notified and no inquest held.....	36
Fires attended.....	157
Fire plugs out of repair.....	18
Filthy alleys reported.....	96
Horses and other animals found and returned to owners.....	223
Hydrants and water pipes broken.....	415
Inquests attended.....	59
Lamps out of repair.....	145
Loads of coal weighed.....	1, 504
Lost children restored to parents.....	174
Lodgers accommodated.....	3, 930
Nuisances reported.....	452
Owners of insecure buildings notified.....	27
Pumps out of repair.....	357
Permits examined.....	218
Sudden deaths reported.....	81
Sewers in bad condition.....	108
Suicides.....	8
Telegrams sent and received.....	39, 427
Trees and tree boxes damaged.....	1, 230
Water notices served by police.....	846

APPENDIX K 2.

INVENTORY OF DISTRICT PROPERTY.

MAJOR AND SUPERINTENDENT'S ROOM.

Cylinder desk.....	1	Wash-stand, bowl, and pitcher.....	1
Book case.....	1	Large desk.....	1
Revolving book rack.....	1	Small tables.....	2
Wardrobe.....	1	Desk chair.....	1
Calendar clock.....	1	Arm chairs.....	7
Hat rack.....	1	Sofa.....	1
Water cooler and stand.....	1	Full set of American Cyclopædias.....	

CAPTAIN AND INSPECTOR'S ROOM.

Desk.....	1	Tables.....	2
Book case.....	1	Desk chair.....	1
Book rack.....	1	Arm chairs.....	2
Hat rack.....	1	Office chairs.....	4

CLERKS' ROOM.

Cylinder desk.....	1	Office chairs.....	2
Tables.....	3	Arm chairs.....	2
Book cases.....	5	Hat rack.....	1
Wardrobe.....	1	Clock.....	1
Washstand.....	1	Step-ladder.....	1
Bowl and pitcher.....	1	Letter press and stand.....	1
Revolving chairs.....	4		

SANITARY ROOM.

Writing desks.....	2	Wardrobe.....	1
Chairs.....	6	Mirror.....	1
Record books.....	8	Spittoons.....	1
Waste basket.....	1	Pens, penholders, inkstands, sponge, and cup.....	1
File holders.....	5		

DETECTIVES' ROOM.

Wardrobes	5	Water cooler	1
Hat rack	1	Waste basket	1
Spittoons	9	Mirror, comb, and brush	1
Writing desks	2	Drop light	1
Writing table	1	Lounge	1
Book case	1	Bedsteads	2
Safe	1	Mattresses	3
Chairs	17	Pillows	3
Carpets	3	Washstand, bowl, and pitcher	1
Clocks	1	Stoves	2
Handcuffs, pair	1	Books, stationery, &c.	
Blackboard	1		

TELEPHONE ROOM.

Carpet	1	Telegraph instrument (old)	1
Clock	1	Table	1
Copying press	1	Sponge and cup	1
Desk	1	Waste basket	1
Inkstand	1	Book rest	1
Pen rack	1	Chairs	3

INVENTORY OF DISTRICT PROPERTY IN THE SEVERAL STATION-HOUSES.

FIRST PRECINCT STATION.

Batons, regulation	32	Oil, sperm, bottle	1
Blankets, pairs	29	Pens, boxes	1
Book case	1	Penholders	5
Blotters	25	Pen racks	2
Brushes	8	Pistol case	1
Brooms	6	Pistols, army	30
Bucket	1	Pistols, army-holsters	30
Bedsteads	13	Pistols, army, cartridge boxes	30
Bellows	1	Pistols, army belts	30
Books, record	21	Pistol, Colt's pocket-pistol, one to each man	31
Cartridges (pocket pistol)	200	Pan, dust	2
Cartridges (Army size)	560	Pencils, lead	6
Copy, laws United States	1	Pencils, slate	6
Copy, laws District of Columbia	1	Pillows	26
Copy, laws Webb's Digest	1	Pillow cases	40
Chamois skin	1	Rulers, rubber	2
Clock	1	Slates	2
Combs	3	Sheets	40
Chairs	18	Spreads	44
Coffee boiler	1	Stoves and pipe	5
Coal (tons)	1	Spittoons	21
Coal hods	5	Sponge cup	1
Coal shovel	1	Table	1
Coal sieve	1	Towels	13
Desks	2	Tin cups	8
Handcuffs, pairs	2	Tin basin	1
Hose, rubber	1	Telephone instrument	1
Inkstands	2	Wardrobes	12
Ink bottles	2	Water-cooler	1
Locks for cells	2	Writing-desk	1
Lanterns	2	Window curtains	24
Map of District of Columbia	1	Washstand	1
Mattresses	26	Wood, kindling, $\frac{1}{2}$ cord	
Mats, door	2	Envelopes, stationery, &c., for use of station	
Mucilage, bottle	1		
Mops, floor	4		
Mirrors	3		

SECOND PRECINCT STATION.

Wardrobes	20	Clocks	2
Bedsteads	6	Water-cooler	1
Mattresses	11	Desk	1
Pillows	11	Book case	1
Sheets	55	Mirrors	2
Pillow cases	35	Pistol case	1
Towels	35	Hose, set	1
Blankets	12	Coffee boiler	1
Bedspreads	11	Stoves and stove pipe	4
Carpets	5	Coal hods	3
Matting, hall	1	Brushes, all sorts	12
Chairs	25	Coal sieve	1
Tables	3	Lanterns	3
Window curtains	10	Door mats	3
Map of District of Columbia	1	Feather dusters	2
Locks and keys for cells	4	Water buckets	2
File holders	4	Brooms	8
Spittoons	10	Insect bellows	1
Iron rail fence	1	Mops	1
City directory	1	Mop stick	1
Slates	2	Rogues' picture case	1
Baskets	1	United States Statutes at Large	1
Batons, dress	14	Webb's Digest	1
Handcuffs, pair	1	Tin cups	7
Combs	1	Whisk brooms	4
Dust pan	1	Lot of record books, stationery, half ton of coal, half cord of wood, a small quantity of toilet soap, black- ing, camphor, candles, &c.	
Gas drop light	1		
Shovels	3		

THIRD PRECINCT STATION.

Army revolvers	20	Office chairs	2
Army revolver cartridge boxes	16	Mirrors	3
Army revolver holsters	20	Map of Georgetown	1
Army revolver belts	20	Lantern	1
Army revolver cartridges	320	Step ladder	1
Colt's revolvers (pocket)	22	Door mats	2
Colt's revolver cartridges	330	Window brush	1
Bedsteads	12	Counterpanes	52
Water-cooler	1	Coal hods	3
Musket-rack	1	Stove brushes	2
Stove	1	Regulation day batons	20
Wardrobes	3	Book cases	2
Blankets	48	Pocket lamp	1
Bedroom chairs	6	Office desk	1
Drop lights	2	Sheets	72
Pillows	17	Towels	17
Shoe brushes	10	Revolver rack	1
Water pitcher	1	Dust pans	1
Window curtains	11	Buckets	4
Small stove	1	Sprinkling can	1
Scoop shovel	1	Slates	2
Pine tables	2	Office clock	1
Sponge	1	Carpets	2
Mattresses	20	Feather duster	1
Hand hose	1	Mop handle	1
Waste basket	1	Tin cups	6
Brooms	2	Hatchet	1
Bellows, insect	1	Roller towels	25
Whisk brooms	5	Pillow cases	45
Handcuffs, pairs	2	Coal sieve	1
Spittoons	12	Lot books, stationery, &c.	
Arm chairs	13		
Dust brush	1		

FOURTH PRECINCT STATION.

Army revolvers.....	25	Small towels.....	6
Army revolver holsters.....	26	Common chairs.....	10
Army revolver cartridge boxes.....	25	Arm chairs.....	19
Army revolver belts.....	25	Spittoons.....	21
Horse blankets.....	2	Mirrors.....	3
Saddles.....	2	Combs.....	5
Bridles.....	2	Hair brushes.....	5
Wardrobes.....	3	Clothes brushes.....	3
Pistol case.....	1	Penholders.....	6
Tables.....	4	Dark lantern.....	1
Book cases.....	2	Lantern.....	1
Writing desk.....	1	Tin cups.....	6
Clocks.....	2	Colt's pocket revolvers.....	24
Office chairs.....	2	Colt's metallic cartridge boxes.....	6
Carpets, yards.....	105	Toilet soap, dozen.....	2½
Mats.....	2	Blackening brushes.....	3
Waste baskets.....	2	Matches, gross.....	½
Double bedsteads.....	10	Boxes blacking, dozen.....	1
Single bedsteads.....	4	Whisk brooms.....	6
Mattresses.....	22	Foolscap, ream.....	½
Pillows.....	24	Letter paper, ream.....	½
Spreads.....	42	Shoe brushes.....	4
Double blankets.....	42	Bottles kerosene oil.....	2
Single blankets.....	3	Coffee boiler.....	1
Sheets.....	84	Coal shovels.....	4
Pillow cases.....	36	Dress batons.....	20
Roller towels.....	18	Stoves.....	2
Furnace.....	1	Hoe.....	1
Drop light.....	1	Wall brush.....	1
Insect exterminator, bottles.....	11	Whitewash brush.....	1
Water-cooler.....	1	Hose, feet.....	50
Step ladder.....	1	Curtains.....	8
Buckets.....	4	Lot of books used as records.....	
Rake.....	1	Gun rack.....	1
Dust brush.....	1		

FIFTH PRECINCT STATION.

Badge brushes.....	2	Hair brushes.....	5
Batons in daily use.....	28	Handcuffs, pairs.....	3
Batons, rosewood.....	30	Inkstands.....	2
Bedsteads, double.....	13	Lantern.....	1
Bedstead, single.....	1	Mirrors.....	4
Bed spreads, white.....	25	Map of District of Columbia.....	1
Bed spreads, colored.....	26	Mattresses.....	28
Blackening brushes.....	6	Office clock.....	1
Blankets.....	53	Pen racks.....	2
Book cases.....	2	Combs.....	6
Books, record.....	58	Pillows.....	48
Brooms.....	8	Pillow slips.....	74
Buckets.....	4	Pistol rack case.....	1
Carpets in strips, yards.....	40	Powder bellows, insect.....	1
Carpets on rooms.....	5	Revolving chairs.....	2
Cell locks.....	6	Revolvers, Colt's, improved.....	28
Chairs.....	43	Rubber hose, feet.....	40
Coal hods.....	2	Rubber rulers.....	2
Coal shovel.....	1	Sheets.....	88
Coal sieve.....	1	Shovels.....	8
Clothes brushes.....	4	Sign for station.....	1
Colt's army revolvers, equipments, &c.....	37	Scissors.....	1
Cartridges for same.....	825	Slate.....	1
Copy Revised Statutes.....	1	Spittoons.....	21
Copy Webb's Digest.....	1	Sponges.....	
Dark lantern.....	1	Sponge cup.....	
Door mats.....	3	Stoves.....	
Dust brush.....	1	Tables.....	
Dust pan.....	1	Telephone instrument.....	
Feather duster.....	1	Tin basins.....	

114 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Tin cups.
Tin kettle.
Towels, roller.
Towels, hand.
Wardrobes, double.
Wardrobes, single.
Waste baskets.

Water cooler.
Whisk brooms.
Window curtains.
Writing desks.
Small lot of stationery, soap, blacking,
matches, &c.

SIXTH PRECINCT STATION.

Set of office books and records	1	Coal hods	5
Double bedsteads, iron	11	Coal shovel	1
Single bedstead, iron	1	Stove shovels	5
Mattresses	24	Water buckets	2
Pillows	24	Slop buckets	2
Pillow slips	40	Sprinkler	1
Sheets	100	Grass scythe	1
Bedspreads	24	Step ladder	1
Chairs	40	Brooms	3
Revolving chair	1	Door mats	3
Carpets	4	Wheelbarrow	1
Stoves	4	Coal sieve	1
Clock	1	Handcuffs, pairs	2
Mirrors	3	Book case	1
Double wardrobes	2	Brushes, all sorts	12
Single wardrobes	3	Combs	2
Writing desks	3	Bull's-eye lantern	1
Round tables	2	Colt's army revolvers	24
Telephone instrument	1	Belts, holsters, and cartridge boxes	24
Pistol case	1	Rounds of ammunition for same	300
Double blankets	24	Map of District of Columbia	1
Rollers	15	Whisk brooms	3
Towels	8	Slates	4
Window shades	9	Hose and pipe	1
Water cooler	1	Lime, barrel	$\frac{1}{2}$
Spittoons	16	Stationery, &c.	

SEVENTH PRECINCT STATION.

Double bedsteads	15	Whisk brooms	2
Single bedsteads	3	Floor brooms	6
Hair mattresses	32	Combs	1
Shuck mattresses	3	Tin wash basin	1
Sheets	85	Floor mats	2
Pillow cases	70	Lanterns	1
Double blankets	66	Oilcloth, yards	5
Spreads	54	Carpet, yards	128
Hair pillows	33	Manuals	38
Roller towels	28	Whistles	38
Hand towels	10	Badges	37
Wardrobes	11	Belts	37
Arms rack	1	File holders	5
Writing desks	4	Colt's revolvers	37
Office chairs	2	Water cooler	1
Cane-seat chairs	10	Coal, tons	2
Armchairs	9	Wood, cord	$\frac{1}{4}$
Bedroom chairs	10	Shovels	3
Telephone and fixtures	1	Coal hods	4
Stoves and fixtures	4	Pen holders	4
Round table	1	Lead pencils	12
Window curtains	10	Pens (boxes)	2
Iron spittoons	17	Erasers	2
Earthen spittoons	2	Pen racks	3
Mirrors	4	Inkstands	3
Book case	1	Sponge cups	2
Rubber hose	1	Sponges	2
Drop lights and fixtures	2	Foolscap paper, ream	$\frac{1}{8}$
Clock	1	Letter paper, ream	$\frac{1}{8}$
Paper weights	2	Note paper, ream	$\frac{1}{8}$

Envelopes	90	Regulation batons	
Ink, bottle	1	Cartridges	200
City Directory	1	Army revolvers	28
U. S. Statutes at Large	1	Cartridge boxes	25
Shears, pairs	2	Cap boxes	3
Blacking (boxes)	20	Belts	28
Toilet soap, cakes	25	Holsters	28
Slates	3	Cartridges (Army size)	725
Rubber rulers	2	Saddles	7
Waste baskets	2	Bridles	7
Tin-cups	2	Halters	6
Fire-alarm keys	37	Halter straps	6
Day batons	37	Blankets	7
Night batons	37	Lot of record books, &c.	

EIGHTH PRECINCT STATION.

Bedstead, iron	34	Handcuffs, pairs	4
Bedstead, wood	1	Dress batons	30
Sheets	70	Mirrors	3
Counterpanes	28	Chairs	42
Pillows	40	Chairs, revolving	3
Pillow cases	45	Water coolers	2
Mattresses	29	Buckets	4
Roller-towels	14	Spittoons	34
Hand towels	24	Dust brushes and pans	2
Carpets	3	Drop light	1
Door-mats	3	Ax	1
Oilcloths	3	Brooms	5
Double wardrobes	2	Brooms, whisk	4
Single wardrobe	1	Window shades	12
Clocks	2	Telephone instruments	2
Pistol case	1	Coal scuttles	2
Stoves, drums, and pipe	3	Slates (double)	3
Pokers	2	Army revolvers	33
Rulers	3	Cartridge boxes	33
Coffee boiler	1	Belts and plates complete	33
Shoe brushes	5	Cartridges (rounds)	300
Pitcher and bowl	1	Shovels	2
Writing desks	4	Feather duster	1
Tables	3	Washstand	1
Book case	1	Furnace	1
Lantern	1	Tin coffee cups	6
Inkstands	4	Stove brush	1
Blankets, pairs	50	Hatchets, lamps, pens, pencils, ink, paper, books, &c., for use in the sta- tion.	
Pen racks	3		
Tin cups	4		

APPENDIX K 3.

REPORT OF SANITARY OFFICER.

DEPARTMENT METROPOLITAN POLICE,
SANITARY OFFICE,
Washington, D. C., September 15, 1881.

SIR: I have the honor to submit my report of the work of this office during the fiscal year ending June 30, 1881.

This office is charged with attending to the destitute sick and poor of the District of Columbia who are compelled to go to hospital for treatment, as well as the non-resident sick and insane persons found in our midst in a suffering condition. Each case has to be carefully inquired into, and when found to be fit subject for treatment, the patient is promptly removed to the hospital. He or she is entitled to admission under the

law. In connection with the removal of these sick and insane cases to the several hospitals and asylums, I wish to call attention to the fact that the number of such cases has increased during the past year nearly 33 per cent. over any previous year; that the work performed by the ambulance driver has been done promptly, cheerfully, and with great fidelity. He not only understands, and is careful in the treatment of his horses, but is also kind and humane with the poor unfortunates he is called upon to remove. I may say that there is scarcely a day that the driver has a chance to partake of his regular meals, owing to the number of cases daily reported to be urgent, and consequently demanding immediate attention. It will thus be seen that not only the driver, but also the horses are put to their best efforts in trying to perform all the work and meet the demands of the number of applicants for removal to hospital. There was purchased for the use of this office a temporary light wagon during the past year, but no horse. I would suggest that an additional horse be purchased, and thus considerably relieve the ambulance team proper.

I again call attention to the fact that a number of non-resident insane paupers are found by the officers of this department wandering about the streets, and year after year these numbers increase. Under the law the District of Columbia is compelled to defray the expenses of their support in the Government Hospital for the Insane. Those whose legal place of residence can be ascertained are removed to their friends, but owing to the fact that many of them are not possessed of mind enough to give any account of their friends or legal place of residence, the District is compelled to pay for their support in hospital. The entire cost of their support while in hospital and transporting them to their homes has to be borne by the District of Columbia. I therefore suggest that Congress be requested to make a special appropriation to defray both the cost of supporting this class of persons while in hospital here as well as transporting them to their homes, as they have no claim whatever upon the District, inasmuch as they belong and are resident of the different States.

This office is also charged with furnishing transportation to persons who come to this city in hopes of getting employment, or who have some claim against the government. For instance, soldiers and widows of soldiers applying for pensions, and who think by coming to Washington they will accomplish that which for years they have failed in. They manage in some way to get means enough to bring them here, thinking they will succeed in obtaining what they imagine is justly due them, and in case they should not, that the government which they claim to have served so faithfully would at least give them enough to enable them to return to their homes. Subsequently they find out that they not only fail in obtaining the object of their mission, but that the general government has made no provision whatever with which they could be sent to their homes. The result is, they apply "like all others," to the police department for assistance, and as they are not "tramps" and cannot properly be classed as such, they must be treated with the consideration due to humanity. Therefore, it has been the practice of this office to extend to these people, or at least to the most distressed ones among the number, relief by way of transportation to or towards their homes. Owing to the small amount appropriated, relief cannot be extended to one applicant out of ten. The cost of such transportation is borne by the District of Columbia, though the beneficiaries are residents of the different States, and with few exceptions have some claim on the gen-

eral government, inasmuch as the greater number of them have been soldiers, or the widows or orphans of soldiers who served in the late war. In my opinion there is no money appropriated by Congress which does more good than this, but owing to the daily increase of the number of worthy applicants, and the inadequacy of the amount appropriated, I respectfully suggest that the amount be increased to \$5,000.

As in previous reports, I again request that the attention of Congress be called to the fact that section 248, page 947, Revised Statutes of the United States, provides that affidavits as to the insanity and indigency of the resident insane of this District must be made before a judge of the criminal or circuit court, or before a justice of the peace of the District of Columbia. Consequently there is no officer connected with the District government empowered to take such depositions, except the major and superintendent of police and the Commissioners of the District; the latter overburdened with other duties and not having time to attend to such matters, and, in the absence of the former, the acting major and superintendent has not the power to administer such affidavits. I therefore suggest that in order to facilitate the duties of the office, the section referred to be amended by inserting the words "or notary public" after those of justice of the peace.

I again wish to call attention to the urgent necessity for the erection in this city of an asylum where confirmed inebriates could be treated. There is no hospital or institution within the District where this class of persons can be sent and confined against their will. It often occurs that after all efforts on the part of the friends of these people to care for and reform them have failed, they are turned over to this department to be disposed of in some manner. Cases of this kind have been frequently sent from this office to the Providence Hospital, some to the Freedman's Hospital, and some to the Washington Asylum Hospital, where they have been kindly received and treated; but upon recovering from their drunken condition they have demanded their liberty, which could not be denied them, and have been found by the officers of the department the next day in as bad and deplorable condition as they were when sent to the hospital a few days before. Some of these unfortunate creatures whom I have known are respectably connected, whose friends have used all the means in their power to restore them to manhood, who had to be arrested the next day after their release from the workhouse, and sent down for another term of ninety days, and thus they spend their whole life, or nearly so, prisoners in that institution.

Humanity demands that there should be erected some such institution wherein these poor unfortunate people could be cared for, as the greater number of suicides, if not all which occur in our midst, are among those suffering from *mania a potu*, or the immediate effects of alcohol, and whose lives would be saved if the persons so afflicted could be confined in an institution of this kind until reason could be restored, and not only that, but many of them in a short time would be returned to their position in society and become not only respectable and honorable but useful citizens.

The following will show the number of sick and destitute persons sent to the several hospitals and asylums within the District of Columbia, and the nativity of the same; also the number of the non-resident paupers furnished with transportation towards their homes:

Number of sick and destitute persons sent to the several hospitals and asylums during the year ending June 30, 1881.

Washington Asylum.....	470
Freedman's Hospital	422

118 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Providence Hospital.....	249
Government Hospital for Insane.....	131
Children's Hospital.....	11
Columbia Hospital.....	7
Little Sisters of the Poor.....	1
Saint Ann's Infant Asylum.....	1
Total.....	1,292
Increase over last year of.....	418

Of the total number sent to the Providence Hospital, about one-third were residents of this district, who were admitted through the kindness of the management of that institution, and cared and treated free of charge.

The nativity of persons sent to the several hospitals and asylums:

United States.....	1,037
Ireland.....	147
Germany.....	78
England.....	15
Scotland.....	4
Switzerland.....	4
Canada.....	1
Wales.....	1
Turkey.....	1
Poland.....	1
Russia.....	1
Portugal.....	1
India.....	1
Total.....	1,292

The number of indigent persons furnished with transportation toward their homes at the expense of the District of Columbia, was 349.

The number of cases removed in police ambulance from the scene of accident, and from the several dispensaries, to their respective homes, in addition to those removed to the several hospitals, averaged from two to five per week.

Actuated with a sense of justice toward the driver and hostler of the ambulance, and in view of the fact that they have to work day and night, I respectfully recommend that the compensation of each be increased. The driver, who now receives \$50 per month, be increased to \$75, and the hostler, who only receives \$25 per month, "not even one dollar per day," be increased to at least \$45 per month.

Respectfully submitted.

JOHN CONNELL,
Sanitary Officer Department Police.

WM. G. BROCK,
Major and Superintendent.

APPENDIX K 4.

REPORT OF BOARD OF SURGEONS.

WASHINGTON, D. C., September 12, 1881.

DEAR SIR: I have been requested by the surgeons of the force to prepare and transmit to you their annual report for the year ending

June 30, 1881. A severe illness, of more than a month's duration, has prevented an earlier compliance with their request and your wishes.

The whole number of the force is.....	238
Number who have been sick or disabled.....	185
Per cent. of force who lost time.....	.77
Total days' time made by the force.....	86,870
Total days' time lost through disability.....	4,192
Per cent. of time lost.....	.048
Average number of days lost by each man sick.....	23

Two members, being hopelessly insane, and inmates of asylums, lost one year each, leaving 236 members who did more or less duty during the year, or, 183 properly on the sick-reports, who either returned to duty or died. Dropping the two incurables, we have :

Total days' time made by 236 members.....	76,140
Total days' time lost by 183 members.....	3,462
Per cent. of time lost by 183 members.....	.045
Average days' time lost per man sick.....	18 $\frac{462}{183}$

The greatest number of days was lost in the month of March, being 458 days, and the number on sick-reports was 53, being nearly nine days to each one on the reports for the month. The least time was lost in the month of August, being 186 days by 24 men, or an average of 7 $\frac{3}{4}$ days per man. Two deaths have occurred during the year, viz :

Townsend R. Hobbs, of consumption, who lost 184 days.

Thomas Hellmuth, congestion of liver, who lost 26 days.

TIME LOST.

The large number of the force who lost time and the great amount of time lost, cannot but excite query as to either the cause thereof or the necessity therefor. Several reasons are to be assigned for the number who lost time, one of which is fatigue; the length of the beats and the fatigue of patrolling them, frequently causing the men to plead sickness that they may obtain needed rest.

Again, a man frequently goes off duty sick, and the surgeons learn that for days he has frequented some drug-store and obtained some palliative, or has been taking some domestic remedy, or some charitable friends have suggested the very panacea for his ailment, each and all of which have failed to work the charm of a cure or have the desired effect of keeping the man on duty. When asked why he did not apply to the surgeons immediately on feeling unwell, the reply is, "O, I didn't wish to go off duty." He evidently forgets that it is the surgeon's duty to decide whether he is "fit or unfit for duty" and that the members of the force are expected and required to go to the surgeons "on the first manifestations of sickness," not that they may go off duty but that the tendency to disease may be checked, and they be prevented from losing time. A strict compliance with paragraph 164, page 38, of the Manual, would greatly lessen the number of days lost by sickness. If the men were more careful in their habits of life, and took rest on the days when they are off duty, instead of taxing their powers of endurance still further in the ways they are said to do, there would be fewer of them on the sick-reports. The manner of working the force at present, on the six-hour system, necessarily causes a great irregularity in the men's meals, for on no two consecutive days are the same meals partaken of at the same hour. Thus, if A dines to-day at twelve o'clock, that he may go on duty at one, to-morrow he will dine at two o'clock or later, because he went on duty at 8 a. m. and came off at one; so with other

meals; and thus the digestive organs are put out of order. While the surgeons have no suggestions, with the present limited number on the force, to make whereby this evil might be remedied, yet we mention it as one of the factors causing time to be lost.

There is another reason why more days' time is lost than perhaps might be. When a man becomes convalescent, and able to do some kind of duty, he is necessarily kept from reporting as "fit for duty" because he must take his regular tour, night and day, without regard to the state of the weather. Sometimes a man's first tour of duty would come at midnight; and it is deemed unwise to send a patient to the street at midnight from a sick-bed, and often at least one day is thus added to the time lost that the man may be guarded from a relapse. If some detailed duty for a short time could be given the convalescent (which is not practicable, I grant), much less time would appear on the reports as lost by sickness.

One other cause of "time lost" remains to be mentioned, and that is the time spent at the police court. The men who do duty during the later part of the night go off duty at 6 o'clock a. m., and are supposed to take rest until 6 o'clock p. m.; but should they have been so unfortunate as to have made any arrests during their tour of duty, they must appear at the court, and spend a large part of the day there instead of at their homes, in bed, resting; so that when the hour of 6 p. m. arrives, the men are tired and too often unfit to again resume duty and do it efficiently. The actual need of the force is an increase of members sufficiently large to cover the city more perfectly, and also afford longer hours of rest to the men; and then a more rigid enforcement of the regulations, as regards the manner of doing duty, can be required of the sergeants, whose sense of humanity now prevents them from exacting as strict a compliance with the rules as they then would.

STATION-HOUSES.

The station-houses are where the privates spend the most of their time when not on street duty. They live at the station-houses, taking their meals at the residences of their wives or at their boarding-houses. A station-house is not a place where the members of the force report at stated times that they may then go on street duty, but where they sleep and spend their time awaiting their tour of street duty, or any emergency, going to their meals at irregular periods, with an occasional night when they can remain away from the station for a few hours. From the foregoing it will appear that the members of the force reside at the station-houses and their families live somewhere else, and that they are only visitors at what are called "their homes." To plan a suitable station-house, the general ideas contained in the above should be kept in mind, that some comfort, as well as conveniences, should be accorded the men. Neither of the station-houses owned by the District is just the kind of building we should suggest as suitable to be used as a model for any that may be erected in the future, but as having serious defects to be avoided, especially in the want of proper ventilation in the dormitories. Only three buildings used as station-houses are the property of the District, namely, the third, fourth, and eighth precincts, respectively. The five rented buildings used as station-houses are so entirely unsuited to the purposes used, that it is impossible to find language suitable to express their monstrous inadaptability and the great wrong done to those members of the force who are so unfortunate as to be obliged to resort to them as their stations. In the

continued use of the buildings, if more suitable ones could be obtained, would be shown a disregard of the right of the men to proper and suitable shelter, comfort, and rest, that they may efficiently and satisfactorily discharge their duties. At an early a day as practicable, suitable station-houses should be erected in the first, second, fifth, sixth, and seventh precincts, and a substation in Uniontown.

SICK AND WOUNDED.

Frequently persons are taken sick in the cells of the respective station-houses, or are found so on the streets, or persons are injured or wounded, accidentally or otherwise, and are carried to the stations, and the police surgeons are sent for to render surgical or medical services. If the police surgeons are expected to render service to persons under these circumstances some provisions should be made whereby the remedies and appliances suitable to each case could be obtained without personal cost to them or the members of the force. In many cases either the surgeon, the lieutenant, the sergeant, or some member of the force have to pay out of their individual pockets the cost of the means needed and used. If the physicians to the poor were called to attend to such cases they could without personal cost make necessary prescriptions and obtain the needed means of relief.

INSANE CASES.

During the year perhaps 100 persons have been sent to the insane asylum by the surgeons of the force, beside a large number who have been sent to their respective homes in the States and another class, who were declared not to be insane or not fit inmates of the asylum for insane.

The classes of persons submitted to our examination as insane are:

First. Persons who come here from the States, and some from very remote places, who claim to be "President of the United States," or have some fancied wrong for the President to right, some claim to be adjusted, some patent to be granted, or some wild chimera to be promulgated.

Second. Persons who are non-residents who have wandered from their homes and who either seek the seat of the general government because of an indefinite idea they have that here all their wrongs are to be righted, or they are forwarded to this place from adjacent cities that the government shall take care of and provide for them.

Third. Persons who reside here, and whose friends find it no longer possible to restrain them in their vagaries or control them in their violence.

Fourth. Persons, who though not insane are no longer responsible for their acts, but are imbeciles, from age or some other infirmity, and whose friends are tired of the expense and trouble of providing for their necessities.

Fifth. Persons who are not insane in any definition of the term, unless dipsomania is insanity, but are persons who at the time of the examination are inebriated, or have become so perfectly enslaved by that pernicious habit as to have lost all self control.

Those who constitute the first, second, and third classes are the persons whose cases demand our careful examination lest we should unhappily deprive a citizen of liberty without being able to demonstrate to a jury that we were justified in so doing, should a suit for false imprisonment ever be brought against us, in danger of which we continually

stand. We are obliged to be equally cautious lest we let remain unrestrained one whose liberty would be dangerous to life or property. Many of these persons are strangers to us, with whose histories or peculiarities we are unacquainted, and whose sense of caution prompts them to reticence and to attempt to conceal their peculiar weakness, of the existence of which they, sometimes, do not appear to be entirely unaware. It is evident that a nice discriminating judgment is here required, as well as good tact and caution, that no error be committed on either side.

As regards those constituting the fourth class, we often find ourselves greatly straitened, for they need care and protection and yet there is no asylum or place of refuge for them. We commend such cases to your consideration that some suitable provision under the head of charity be made for them.

The fifth class should properly find refuge in an inebriate asylum, which institution, as yet, has failed to recommend itself as a necessity, sufficiently strong to the authorities to meet with the favor the case demands. Such an institution, while it should be considered a blot on our civilization, should be an important institution in our humanities and receive a large share of our charities.

I believe that my task will be done and the duty assigned me completed, when I shall have referred, briefly, to the fact that the doors of Providence Hospital have been willingly and cheerfully opened to receive any case of emergency, we, or the police, have sent there, but because of the unostentatious manner in which the offer was made and the cordiality with which our unfortunates have been received, we have been chary of using our privileges, which are, that we may send any we choose to that institution.

I remain, Major, very respectfully, &c.,

S. A. H. McKIM, M. D.,
Surgeon Metropolitan Police, District Columbia,
for Board of Surgeons.

W. G. BROCK, Esq.,
Major and Superintendent Metropolitan Police, D. C.

APPENDIX K 5.

ESTIMATES.

Stationery, printing and binding.....	\$1,500 00
Gas.....	1,200 00
Telegraphy.....	120 00
Ice.....	150 00
Washing.....	600 00
Meals for prisoners.....	600 00
Photographs.....	150 00
Rent of telephones.....	400 00
Expenses of ambulance and team, and purchase of horses for same.....	1,500 00
Detection and prevention of crime.....	600 00
Furniture and repairs to same.....	500 00
Police equipments and repairs to same.....	500 00
Ammunition.....	100 00
Beds, bedding, towels, &c.....	200 00
Contingencies.....	5,680 00
Total miscellaneous.....	13,800 00

Estimates for Police Department, year ending June 30, 1883.

Major and superintendent	\$2,610 00
Captain and inspector	1,800 00
Property clerk	1,800 00
Clerk	1,500 00
1 clerk	1,200 00
3 surgeons, at \$450 each	1,350 00
6 detectives, at \$1,320 each	7,920 00
10 lieutenants, at \$1,200 each	12,000 00
20 sergeants, at \$1,140 each	22,800 00
7 acting sergeants, at \$1,080 each	7,560 00
120 privates, class 2, at \$1,080 each	129,600 00
73 privates, class 1, at \$900 each	65,700 00
16 station-keepers, at \$516 each	8,256 00
8 laborers, at \$420 each	3,360 00
1 messenger	700 00
1 messenger	500 00
2 drivers, at \$300 each	600 00
1 ambulance driver	600 00
Major and superintendent (mounted)	360 00
Captain and inspector (mounted)	240 00
50 lieutenants, sergeants, and privates, mounted service, at \$240 each...	12,000 00
Total pay roll	282,456 00
Rent of station-houses and headquarters	5,960 00
Fuel	1,500 00
Repairs to station-houses	1,500 00
Purchase of steam-launch and expenses of running the same	5,000 00
Miscellaneous expenses, including stationery, gas, telegraphy, ice, wash- ing, meals for prisoners, photographs, printing and binding, expenses of police ambulance and team, expenses incurred in detection and pre- vention of crime, for furniture and repairs to same, for police equip- ments and repairs to same, ammunition, beds and bed clothing, one- horse ambulance, horse and harness, insignia of office, and forage	15,000 00
In all	311,416 00

L.—REPORT AND ESTIMATES OF THE TRUSTEES OF PUBLIC SCHOOLS.

OFFICE OF BOARD OF TRUSTEES OF PUBLIC SCHOOLS,
Franklin Building, Washington, September 29, 1881.

GENTLEMEN: The board of trustees, in response to your communication of August 15, requesting "an estimate of the amount required for the support of your department for the fiscal year ending June 30, 1883; also a detailed statement of the transactions of your department for the fiscal year ending June 30, 1881, with any recommendations you may deem it advisable to make, with the object of increasing the efficiency of that branch of the District government," has the honor to submit the following report and recommendations, with an estimate of the amount that will be required for the support of the public schools in the District of Columbia for the fiscal year ending June 30, 1883:

The number of youth of school age (6 to 17 inclusive) in the District of Columbia, according to the census of 1880, was: White, 29,612; colored, 13,946; total, 43,558.

The whole number of pupils enrolled in the public schools for the school year ending June 30, 1881, was: White, 17,716; colored, 9,583; total, 27,299; increase over the enrolment of last year, 860.

The average number of pupils enrolled in the public schools for the

124 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

school year ending June 30, 1881, was: White, 14,453; colored, 7,608; total, 22,060; increase over last year, 461.

The number of teachers employed for the school year ending June 30, 1881, was: In the white schools, 302; in the colored schools, 157; total, 459.

The total payments for the support of the public schools for the school year ending June 30, 1881, were \$527,311.63.

The number of school-rooms owned is: For white schools, 180; for colored schools, 109: total, 289.

The number of school-rooms rented is: For white schools, 84; for colored schools, 23: total, 107.

ESTIMATE OF EXPENSES FOR THE SUPPORT OF THE PUBLIC SCHOOLS FOR THE FISCAL YEAR ENDING JUNE 30, 1883.

Salaries of teachers and superintendents	\$343,000 00
Wages of janitors and sweeps	25,000 00
Rent	22,000 00
Fuel	15,000 00
Repairs (including new roof for Jefferson building)	16,000 00
General supplies	15,000 00
Insurance	600 00
Printing	3,750 00
Secretary and clerks	2,050 00
Miscellaneous expenses	4,000 00
Fire-proof stairs for Sumner building	5,000 00
Furniture and apparatus for high school	3,500 00
Furniture for new schools	5,000 00
Purchase of ground at Twenty-second and I streets	(?)
Excavating and underpinning Wallach school (east half)	4,500 00
Enclosing and improving grounds at Force school (coping, fences, sodding, &c.)	2,410 00
Enclosing and improving grounds at Henry and high schools (coping, fences, sodding, &c.)	7,119 40
Enclosing and improving grounds at Tenth and U streets (coping, fences, sodding, &c.)	4,610 95
Enclosing and improving grounds at First and Massachusetts avenue (coping, fences, sodding, &c.)	2,825 00
Steam-heating building at First and Massachusetts avenue	5,500 00
Enclosing and improving grounds at Tenth and H streets (coping, fences, sodding, &c.)	1,297 50
Steam-heating building at Tenth and H streets	5,500 00
Purchasing and improving grounds at Anacostia school	888 50
Enclosing and improving grounds at Bladensburg road school	550 00
For purchase of sites and erection of new buildings	100,000 00
To be distributed as follows:	
For the first division	\$30,000 00
For the fourth division	24,000 00
For the fifth division	5,000 00
For the sixth division	6,000 00
For the seventh division	35,000 00

*595,101 35

Very respectfully,

W. W. CURTIS,
Chairman Fiscal Committee.

C. M. MATTHEWS,
President Board of Trustees Public Schools.

Attest:

C. B. RHEEM,
Secretary.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

* Not including the item for the purchase of ground on Twenty-second and I streets

M.—REPORT OF THE COMMISSIONER AND INTENDANT OF
THE WASHINGTON ASYLUM.WASHINGTON ASYLUM,
Washington, D. C., October 1, 1881.

GENTLEMEN: While there has been some improvement, both sanitary and economical, in the general condition of the asylum, I am unable to make a report as favorable as that of last year. This is owing to the fact that the appropriation was largely reduced while there was a decided increase in the number of inmates and the cost of material. As a result of this state of affairs it was necessary to withdraw the prison gang from street work early in the season, there being no money with which to purchase the tools and extra clothing which would have been needed.

For the same reason it has been impossible to make many much needed repairs and improvements. The appropriation for this year is but little larger. The cost of material has still further increased, again making it impossible to utilize prison-labor on outside work. Moreover, the imperative necessity for certain changes long neglected, in order to make the pauper class reasonably comfortable regardless of the amount of money at command, renders the situation even more embarrassing than was that of last year. The condition of the "shanties" which were occupied by the colored male paupers has been for a long time a disgrace to civilization, and they have now become absolutely untenable. The necessity for additional money to furnish comfortable quarters was repeatedly urged upon the attention of Congress, but without avail. I have, however, been obliged, as a matter of common decency, to fit up, at a considerable expense, one of the old army magazine buildings, in which to quarter these people.

In times gone by but little attention was paid to the condition of our unfortunate classes; but public sentiment of to-day demands that they shall be reasonably and comfortably cared for. When I first assumed control of the asylum everything seemed going rapidly into a state of decay. While much has been done to improve the situation, more still remains to be done, and it is unnecessary to say that nothing can be accomplished without means. So far as cleanliness both of buildings and people is concerned, I am in a position to challenge comparison with any similar institution in the United States. Yet, for want of funds, fences have decayed beyond the possibility of repair; blinds have fallen from their hinges, and roofs are in a leaky condition, while the general sanitary state of the various buildings is not what it should be. During a large part of the year the hospital is densely crowded, and new wards have become an absolute necessity. Owing to these facts and to the meagerness of the appropriations for two years past I have made a decided increase in my estimates for the coming fiscal year. In the estimate for salaries it will be seen that nine overseers are provided for, with compensation at six hundred dollars per annum. In last year's appropriation bill five overseers were provided for, at six hundred dollars per annum, and four watchmen at two hundred and forty dollars per annum; but these four watchmen do and have always done exactly the same duty as that performed by the overseers. The amount paid to overseers is certainly very small if we are to expect intelligent and faithful service, and the injustice of making the distinction which has heretofore existed will be seen without argument.

I renew my recommendation that the present law be so amended as to enable the judge of the police court to sentence constant offenders to long terms of imprisonment. It is absurd to hope to reform or in any way benefit a person who has fallen so low as to become a regular inmate of the work-house, while the longest term of imprisonment authorized by law is ninety days. With longer terms and a proper system of rebate of time for industry and good behavior, some effort may be made for reformation. Industries may be taught, which will not only reduce the expense of supporting the prisoners, but will enable them to earn a respectable living when their term of service shall have expired.

I have heretofore recommended, and now urge most strongly, that a house of refuge or reformation be established in connection with the asylum, for colored boys who are now sentenced to the work-house for petty offenses, and whose enforced association with the lowest class of criminals soon makes them members of our rapidly increasing criminal class. With comparatively small outlay the remaining army and navy magazine buildings might be utilized for this purpose. The law should be so amended as to enable the judge of the police court to sentence these boys to the house of refuge until they shall arrive at the age of eighteen, with proper provision for their release at the discretion of your board. Throwing aside all question of sentiment or humanity, and recognizing the fact that it is easier to prevent a person from becoming a criminal than to reform him, the interest of the community at large demands that this action shall be taken. Many of these boys are absolutely without friends or homes; are sent down, not because they are bad, but because the world affords them no other place; and at the end of their terms they constantly importune me to allow them to remain. The parents of others, obliged to go out to service, and therefore unable to properly restrain the boys, have also begged me to keep them in the work-house beyond their term of confinement. Under the present arrangement I am obliged either to turn them upon the streets, knowing that they will immediately return to the work-house and take another lesson in crime, or transfer them to the almshouse to be trained as ignorant paupers.

The question of the care of the so-called "mildly insane" has been discussed in an informal manner during the past year, and it has been suggested, or directed, that that class of people should be cared for at this institution. This practice obtained many years ago throughout the larger portion of the civilized world. But philanthropists and others, who have devoted their whole lives to the consideration of questions connected with the management of the unfortunate classes, have wrought a decided change in public opinion, and in the most enlightened communities throughout the United States such disposition of that class will no longer be tolerated. If there be not actual abuse, there is always suspicion of it, and probably more scandals, founded and unfounded, owe their birth to this practice than to any other. If the Commissioners desire these people to be cared for under their own jurisdiction, or desire, in other words, to establish an insane asylum here, it will be necessary to provide for a separate and suitable building and for proper attendants. Should my recommendation, made in other reports, for the purchase of land on the east side of the eastern branch of the Potomac River be adopted, such a building might be erected there. In this connection, I desire to call your attention to the protest of the visiting physician, against "the sending of persons suspected of insanity, or actually insane, to this hospital for safe-keeping."

Some years ago I recommended the abolition of one of the offices of

resident physician, and the appointment of a resident student. The large increase of work in the medical department—as shown by the fact that for the year ending June 30, 1879, the total number of prescriptions was 8,700, while for the year ending June 30, 1881, the total number of prescriptions was 15,122—renders it necessary, in my opinion, that the office should be restored, and I have, therefore, provided for it in my estimates. I recommend, however, that with this provision for an additional resident physician, there shall be inserted a clause limiting the term of office to two years, the first year as junior, and the second as senior. The visiting physician is of opinion, with myself, that such a provision will be for the best interest of the asylum.

At the beginning of the year, the asylum dining-room, and the overseer's dining-room and kitchen were in a condition which rendered them utterly unfit for occupancy. These rooms, which are located in the basement, were dimly lighted and illy ventilated by small square windows near the ceiling. The brick floors were undermined by rats, and the earth underneath was saturated with poisonous matter, which, from many years washing of the floors, had soaked between the loosely laid bricks. In order to make them decent and comfortable, the following work was done: In the asylum dining-room, the brick pavement taken up and the saturated soil beneath removed to the depth of two feet, and replaced by fresh clay; 222 square yards of brick pavement relaid, set and jointed in cement; 287 square yards of hard finished plastering; the iron and wood work painted; three large windows cut, and areas made. New benches, tables, and dishes were furnished, and on Christmas day, for the first time in the history of the institution, the inmates ate their dinner in a comfortable, cheery, well-ventilated room. In the overseer's kitchen and dining-room, 199 square yards of plastering was done; 57 square yards of pavement was relaid in the same manner as in the asylum dining-room; new doors were put in; the small windows were replaced by large ones with areas; and the rooms were generally renovated and made habitable.

In the store-room and laundry 57 square yards of pavement was laid, 199 square yards of plastering done, and general repairs made as in the other rooms. The hall was repaired in a similar manner by 28 square yards of paving, and 114½ square yards of plastering. In all these rooms the saturated earth was removed to the depth of the foundations and replaced by clay, as in the asylum dining-room. The office-rooms have been painted and grained, and 226 square yards of hard-finish plastering has been laid. The furnace rooms were renovated, and the floors concreted. The hospital kitchen was thoroughly repaired. Two hundred feet of brick and stone gutter was relaid adjoining the Congressional Cemetery; 244 feet of board fence, eight feet high, was built around the work-house grounds; 75 feet of brick retaining wall was built; and 100 feet of fence reset around the cottage yard. The ward formerly occupied by male prisoners was thoroughly repaired and cleansed, and is now occupied by white male paupers taken from the crowded ward below. Four hundred and forty-one feet of brick walk, four and a half feet wide, was laid; 11,970 feet of blind ditch, three feet wide and three feet deep, was laid, broken brick being used for filling; 559 feet of six-inch sewer pipe with brick man-hole was laid to replace rotten wood trunk, and proper connections were made with the different hospital buildings; 186 feet of wire fence, and 220 feet of board fence, eight feet high, were made. A brick wall, 21 feet 6 inches long and 11 feet high, was built, running from the almshouse to the kitchen, and separating the male and female inmates. Very many other repairs and im-

provements of minor importance were made. Six hundred and four pairs of shoes were repaired by work-house labor. Seven hundred and fourteen coffins were made, of which 542 were furnished to the health department. Fifteen hundred and forty-seven days' work of prisoners, one hundred days' work of overseers, and fifty days of horse and cart labor were furnished the engineer department for the improvement of H street northeast.

During the winter, it being impossible to transport the garbage and night-soil down the river on account of the ice, I was directed to receive it. There were delivered 492 tons of garbage, and 2,542 barrels of night-soil, which was buried in pits dug for the purpose. From a portion of this material 770 barrels of dry fertilizer was manufactured.

Ten thousand heads of cabbage were raised. Large quantities of other vegetables were also raised, but as they were gathered and consumed from day to day, it is impossible to make an estimate of the quantity. Several bushels each of strawberries, grapes, and other fruits were raised and distributed among the inmates of the almshouse and hospital. Ninety-five fruit trees and a number of small-fruit bushes and vines were planted.

Five thousand seven hundred and four pounds of prime pork was killed.

From an artificial pond sufficient ice was cut to supply all branches of the asylum till the present date.

The following statistical tables, and estimates for the next fiscal year, are presented :

STATISTICAL TABLES.

WORK-HOUSE.

Gain and loss from July 1, 1880, to June 30, 1881.

Number in work-house July 1, 1880.....	149
Number received.....	1,910
Number discharged.....	2,059
Number eloped.....	1,878
Number died.....	54
	3
	1,935
Total number in work-house June 30, 1881.....	124

Color and sex.

White males.....	595
White females.....	233
Colored males.....	785
Colored females.....	297
Total.....	1, 910

Daily average of inmates in Washington Asylum.

From July 1, 1876, to June 30, 1877	312
From July 1, 1877, to June 30, 1878	319
From July 1, 1878, to June 30, 1879	327
From July 1, 1879, to June 30, 1880	341
From July 1, 1880, to June 30, 1881	351
Aggregate number July 1, 1881	306

Nativity of inmates.

District of Columbia	556	Ireland	168
Maryland	370	Germany	37
Virginia	470	England	14
Pennsylvania	69	Sweden	9
New York	62	Scotland	5
Massachusetts	32	France	3
Ohio	18	Italy	3
North Carolina	12	Russia	2
South Carolina	11	Prussia	2
Kentucky	10	Austria	2
New Jersey	7	Canada	2
Maine	5	Switzerland	1
Missouri	5	Norway	2
Alabama	4	Jamaica	2
Illinois	4	New Foundland	1
Tennessee	4	West Indies	1
Rhode Island	3	South America	1
Connecticut	2	Turkey	1
Vermont	2	East Indies	1
Indiana	2		
West Virginia	2	Total foreign birth	257
Louisiana	2	Total native birth	1,653
Delaware	1		
Total	1,653	Total	1,910

Charges.

Vagrancy	802	Obscene and insulting language...	2
Disorderly	623	Being a professional thief	2
Profanity	242	Driving through a funeral	1
Carrying concealed weapons	73	Interfering with a funeral	1
Indecent exposure	33	Concealed weapons and trespass on park	1
Trespass on park	18	Refusing to assist a Metropolitan Police officer	1
Destroying private property	24	Cruelty to animals	1
Throwing stones	15	Selling liquor without license	1
Destroying public property	11	Violating hack law	1
Fast driving	5	Refusing to pay hack hire	1
Concealed weapons and profanity ..	5	Concealed weapons and vagrancy ..	1
Concealed weapons and disorderly ..	5	Throwing snowballs in street	1
Profanity and disorderly	4	Destroying public property and vagrancy	1
Committing a nuisance	4	Concealed weapons and destroying private property	1
Disturbing religious worship	4	Placing dirt in street	1
Using illegal scales	3	Escaped and recaptured	9
Business without license	3		
Maintaining a nuisance	2	Total	1,910
Firing a pistol in street	2		
Violating cart law	2		
Failing to remove snow from sidewalk	2		
Injuring private property and profanity	2		

ALMSHOUSE.

Gain and loss from July 1, 1880, to June 30, 1881.

Number in almshouse July 1, 1880	120
Number received	137
	257
Number discharged	132
Number died	11
	143
Total number remaining June 30, 1881	114

130 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Color and sex.

White males	47
White females	37
Colored males	26
Colored females	27
	137

Nativity.

District of Columbia	37	Louisiana	1
Virginia	27	Massachusetts	1
Maryland	17	Ireland	26
New York	4	Germany	11
Pennsylvania	3	England	1
Illinois	3	Scotland	1
West Virginia	2		
North Carolina	2		137
Maine	1		

Coffins used at asylum and health office, and burials in Potter's Field, from July 1, 1880, to June 30, 1881.

Months.	Coffins furnished health office.	Coffins used at asy-lum.	Burials in Potter's Field.
July	50	5	51
August	37	4	42
September	41	12	48
October	36	10	38
November	36	5	38
December	61	7	54
January	45	9	47
February	56	12	57
March	45	5	43
April	51	7	47
May	43	12	41
June	41		27
Total	542	88	533

Estimate for support of Washington Asylum for fiscal year ending June 30, 1883.

SALARIES.

Commissioner and intendant	\$1, 200
Matron	600
Visiting physician	1, 200
Resident physician	480
Resident physician	360
Clerk	480
One overseer	800
Nine overseers, at \$600 each	5, 400
Baker	420
Engineer	600
Assistant engineer	300
Hospital cook	120
Asylum cook	60
Overseer's cook	60
Five nurses, at \$60 each	300
Blacksmith	300
Hostler	60
Total salaries	12, 740

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 131

Contingent expenses, including provisions, fuel, forage, lumber, hardware, shoes, dry goods, drugs and medicines, improvements, and repairs	41,250
Completing workhouse	1,000
Total	55,000

Very respectfully,

GEO. A. CASWELL,
Commissioner and Intendant, Washington Asylum.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX M 1.

REPORT OF PHYSICIAN.

WASHINGTON, *September 1, 1881.*

SIR: I have the honor to submit the following annual report of the Washington Asylum Hospital for the year ending June 30, 1881:

Number of admissions from July 1, 1880, to June 30, 1881	592
Number of births (including two still births)	25
Remaining in hospital June 30, 1880	48
Total	665
Number discharged from July 1, 1880, to June 30, 1881	523
Number of deaths from July 1, 1880, to June 30, 1881	90
Total loss	613
Remaining in hospital June 30, 1881	52
Classification:	
Male adult, white	168
Male children over 5 and under 15 years	1
Male children under 5 years	9
Total	178
• Female adult, white	115
Female children over 5 and under 15 years	7
Female children under 5 years	1
Total	123
Male adults, colored	121
Male adults, colored, over 5 and under 15 years	12
Male adults, colored, under 5 years	12
Total	145
Female adults, colored	134
Female children over 5 and under 15 years	2
Female children under 5 years	10
Total	146
Admitted from at large	427
Admitted from Asylum	45
Admitted from prison	120
Total	592
Sick-call at work-house and number present at sick-call from July 1, 1880, to June 30, 1881	5,795
Number of prescriptions dispensed	4,345
Average of daily sick-call	15.87+
Sick-call at alms-house; number present from July 1, 1880 to June 30, 1881 ..	2,976
Number prescriptions dispensed	2,659
Average daily sick-call	8.56+
Total number of prescriptions	15,122
Average daily prescriptions	41.426+

NATIVITY.

Ireland, 80; Germany, 30; England, 6. Total, 116. District of Columbia, 119; Maryland, 122; Virginia, 148, all other States, 87. Total, 505.

From the foregoing statement it will be seen that there has been a large increase in the number admitted into the hospital over previous years. Allowing a fair amount of space for each bed, 75 patients can be accommodated in the several wards. During five months of the past year we were not only compelled to crowd the wards to such an extent as to barely allow passage-way between the beds, but were obliged to fit up one of the houses in the magazine grounds for hospital purposes, where from 10 to 25 patients were treated for several months. In no month of the year has the number of inmates fallen below 50; the highest number, 126. Some of the wards have been filled to their utmost capacity the entire year.

The past winter was an unusually severe one, bringing to all the charitable institutions of the District for the care of the sick a much greater number of sufferers than ever before. As far as this hospital was concerned, it can be truly stated that all demands upon it have been promptly met. Whilst, as above stated, overcrowding was unavoidable, in all other respects the sick and disabled were cared for as they presented themselves, and none were turned away for want of accommodations.

It is to be hoped that in the future no such strain will be put upon the hospital, as regards room for the sick. The crowding during last winter was sometimes fearful, and far beyond safe limits.

Several capital operations were performed during that time, successful as far as life was concerned in all but one, but tedious and protracted in recovery from impurities consequent upon overcrowding, and which no means at our command was sufficient to overcome.

The increase in the number of admissions during the year, whilst due in chief part to the severe winter, as above mentioned, cannot be ascribed to that cause alone. Compared month by month with previous years we have had during the past year and up to the present time such average increase as to satisfy me that the class of patients usually sent here appreciate the care taken of them, and return again when sick, and that as the population of the District is augmented the greater is the demand upon its charitable institutions.

In view of these facts, it is well to provide as far as possible for such increase. The need of additional accommodation has been mentioned and urged in the several annual reports I have had the honor to forward.

In renewing these recommendations I do so with still stronger convictions of their necessity. At least two new wards, constructed upon improved sanitary principles, are necessary for the proper care of those sent to the hospital.

The addition of an examining and operating room to each of the wards is a much needed improvement, as is also the introduction of gas in every ward.

It is a source of pleasure to record the success which has attended the efforts of the medical staff in behalf of those committed to their care. The death rate—13+ per cent. of the number received into the hospital, and less than 1 per cent. including in the estimate the number under treatment in the alms and work houses—will bear comparison with that of similar institutions elsewhere. The lying-in department has been managed with gratifying results, not one maternal death and but one child dying during the year.

I desire to call attention to, and strongly condemn, a practice of late, assuming such shape as to make its mention a necessity—the sending of persons suspected of insanity or actually insane to this hospital for safe-keeping. It is simply an act of cruelty to the person sent, and an injustice to the management of the asylum. There are no provisions here for the care of such cases. They are a source of anxiety and care to the attendants, already sufficiently worked, and of dread to the patients. When they become dangerous and violent, as has been often the case, personal restraint, the cell, and straight-jacket have to be resorted to until they can be sent to the insane asylum, to which place they ought to have been sent in the first instance.

We have the records of attempted suicide, arson, violence and threats to attendants and inmates, to satisfy us that however mild the form of insanity may appear, there is a period of excitement in all cases, sooner or later developed, with results as above stated, and it is a matter of surprise, as well as congratulation, that no tragedy has yet been enacted in our midst.

If such should occur, I protest, in advance, against any responsibility being attached to the management of the Asylum; for those sending them have full knowledge of what they do, and have the power and means of properly providing for all such cases.

On account of the small compensation (\$5 per month) paid our nurses, we are obliged to put up with very indifferent services in many respects, and changes are of frequent occurrence. As only one nurse for each ward is allowed, the work is often very hard, too much so to enable them to attend to all their duties efficiently. Hence apparent neglect and occasional untidiness. They are, as a general rule, taken from among such patients as show some aptitude for such service; but if they happen to be strong and a little ambitious, they soon seek for more remunerative employment, or, being unsteady and restless in disposition and of bad habits, they soon tire and return to their former mode of life. All this can be obviated by giving such pay as will secure the services of able-bodied as well as trained nurses. I hope this matter will receive serious consideration.

In my last report, I recommended the employment of a drug clerk to attend to the dispensary. We have a daily average of 41 prescriptions, not only to be put up, but to be labeled, recorded, and dispensed, and the various other duties connected with the dispensary are fully sufficient to engage the time of one person. All these duties now devolve upon the medical officer, and prevent them from doing many things of importance in connection with their hospital work; I mention particularly a full medical history of important cases. As it is now, many important observations are unavoidably lost to us.

The sanitary and hygienic condition of the alms and work houses has been entirely satisfactory during the past year. No epidemic has visited either of these institutions, and good order and discipline have been well maintained.

Respectfully, &c.,

JNO. I. DYER, M. D.,
Visiting Physician, Washington Asylum.

GEO. A. CASWELL, Esq.,
Commissioner, Washington Asylum.

Death-rate.

Diseases.	White males.	White females.	Colored males.	Colored females.	Total.
Appendix	2		2		4
Senile debility	4	3	8	4	19
Phthisis pulmonalis		1	5	12	18
Congestive chill			1		1
Diarrhea, chronic		1			1
Delirium tremens	1				1
Paralysis	1				1
Exhaustion				1	1
Syphilis, congenital			1		1
Congestion of the brain			2		2
Pleuritis, chronic	1				1
Peritonitis, chronic			2		2
Pneumonia, chronic				1	1
Cerebral hemorrhage	1	1			2
Pneumonia, acute		2	2		4
Nephritis, acute			1	2	3
Fracture of skull	1			1	2
Pleuro-pneumonia	1				1
Bronchitis, acute				1	1
Valvular disease of the heart			1	2	3
Puerperal peritonitis				1	1
Pleuritis, acute	1				1
General debility		1			1
Syphilis, tertiary		1			1
Erysipelas		1			1
Congestion of lungs			3	1	4
Pyæmia			2		2
Dysentery		1			1
Convulsions			1		1
Umbilical hemorrhage			1		1
Softening of the brain			1		1
Meningitis	1	1			2
Variola, confluent	1				1
Lead poisoning	1				1
Ascites				2	2
Total	16	13	34	7	90

APPENDIX M 2.

ESTIMATES.

WASHINGTON ASYLUM, D. C.

WASHINGTON, September 24, 1881.

GENTLEMEN: The estimate of expenses of the Washington Asylum for the next fiscal year is as follows:

SALARIES.

Commissioner and intendant	\$1,200
Matron	600
Visiting physician	1,200
Resident physician	480
Resident physician	360
Clerk	480
One overseer	800
Nine overseers, at \$600	5,400
Baker	420
Engineer	600
Assistant engineer	300
Hospital cook	120
Asylum cook	60

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 135

Overseers' cook.....	60
Five nurses, at \$60.....	300
Blacksmith.....	300
Hostler.....	60
Total salaries.....	12,740
Contingent expenses, including provisions, fuel, forage, lumber, hardware, shoes, dry goods, drugs and medicines, improvements and repairs.....	41,260
Completing workhouse.....	1,000
Total.....	55,000

Respectfully,

GEO. A. CASWELL,

Commissioner and Intendant Washington Asylum.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

N.—REPORT OF COLUMBIA HOSPITAL FOR WOMEN AND LYING-IN ASYLUM.

COLUMBIA HOSPITAL,

Washington, D. C., November 9, 1881.

GENTLEMEN: The board of directors of the Columbia Hospital for Women and Lying-in Asylum herewith transmit the annual reports from the surgeon-in-charge, the advisory board of physicians and surgeons, and the matron; as also the treasurer's statement of receipts and expenditures, with the necessary certificates.

It needs but the reading of these papers to make clear both the growing usefulness of the hospital, and the importance of the special place it fills in ministering to those in sickness and suffering.

We call your especial attention to the explanation given both by the surgeon-in-charge and by the advisory board as to the very pressing necessity for the enlargement of the hospital building; and we ask your aid in securing the appropriation from Congress of the money needed for it. Without it, we shall have reason to dread the return of the unfavorable causes which have operated against our full success in treatment during the past year. With the moderate outlay it will require, the comfort of the inmates will be promoted, and our power for usefulness largely increased. We press the matter for the thoughtful consideration of the Commissioners and of Congress.

Respectfully, on behalf of the board,

WILLIAM PARET,
President.

NOBLE YOUNG,
Vice-President.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

To the Board of Directors, Columbia Hospital for Women and Lying-in Asylum:

GENTLEMEN: During the fiscal year ending June 30, 1881, 1,032 patients received treatment at the Columbia Hospital for Women.

Of these 721 belonged to the out-door department and 371 were inmates of the hospital.

The accompanying tabulated statement furnishes such information as will lead to a correct understanding of the amount and character of the work accomplished during the year just closed.

There are several matters of importance to which I would respectfully call your attention.

As you will perceive, the mortality (7) during the past fiscal year is greater than that of any preceding year since the hospital has been under my care. This will be accounted for in part by the character of the cases that terminated fatally, and in part also by an outbreak of puerperal fever in the colored lying-in ward.

Of the 7 deaths occurring 2 were from malignant disease of the uterus, 2 from tuberculous inflammation of the bowels, 2 from puerperal septicæmia, and 1 was from embolic thrombosis following phlegmasia alba dolens.

On February 9, 1881, the time of the outbreak of puerperal fever, there were in the house 19 obstetrical patients, 7 white and 12 colored, 2 of each awaiting confinement, the colored lying-in ward being full to its utmost capacity. It was deemed advisable, as a precautionary measure, to send out the 2 undelivered colored patients. A sufficient time had elapsed between the delivery of 3 of the patients and the outbreak of the fever to remove all danger of infection, thus leaving 12 exposed. Of this number 5 were affected with the fever, 2 mildly and 3 severely. Two of these succumbed to its effects; the others finally recovered. The 7 who escaped did not by any means make satisfactory recoveries from parturition; swollen glands and threatened mammary abscesses, giving unmistakable evidence of the presence of septic poisoning.

After the subsidence of the fever the colored lying-in ward was closed to patients; thoroughly fumigated with sulphurous acid, chlorine, and ozone; scoured with carbolized water, and two coats of whitewash (carbolized) were carefully applied, while the woodwork of the entire ward was either painted or varnished. Bedding, linen and ward utensils underwent a thorough process of disinfection, and no labor or care was spared in the use of means to effect the destruction of any remaining contagium. In addition to these measures, the ward was subjected to the low temperature of an exceptionally severe winter.

On April 13, 1881, the sanitary condition of the white lying-in ward became far from good, its vitiated atmosphere being made evident by the unsatisfactory recoveries. A patient awaiting confinement was transferred to the old colored lying-in ward. On the evening of the fourth day after delivery her pulse was 112, temperature 104.2° , and though many days elapsed before there occurred any change for the better, her unfavorable symptoms were not assigned to a distinctly septic influence, as previous to her confinement she was in a generally poor condition, and a speedy convalescence had not been anticipated.

On April 21, 1881, a new patient in excellent condition, admitted during the first stage of labor, was delivered in an adjoining room in the same ward. Her accouchement was natural in all respects, and there was no cause whatever for anxiety until the fourth day, when her temperature rose from 100° on the evening of April 24, to 101.6° on the morning of the 25th. Both pulse-rate and temperature continued to rise until the evening of the fifth day, when her pulse was 130 and temperature 104° , and it became evident from the accompanying symptoms that the case was a typical one of virulent puerperal septicæmia. A detailed history of this patient's illness, however interesting from a medical point of view, is not subject-matter for a report of this kind, and it

is sufficient to say that after having been at the point of death for more than a week, with a pulse at times too rapid to be counted, and temperature ranging from 103° to 105.9° , convalescence finally set in and progressed, with but one severe relapse, until patient left for her home on May 24.

There is no difficulty in ascertaining the cause of this outbreak. From September 8, 1880, to March 23, 1881, the lying-in cases were exposed almost continuously to septic influences, not only because of the crowded condition of the two lying-in wards, but also because of their proximity to the medical and surgical wards; emanations from the foetid discharges almost constantly present in the surgical ward permeating both lying-in wards.

The necessity for a complete separation or isolation is apparent from what I have stated, and hence the necessity of having two distinct departments of the hospital. I would earnestly urge what in my annual report of last year was recommended, viz, that the building be extended on the west wing, in order not only to afford proper accommodations for the dispensary and assistants, but also to increase the capacity of the medical and surgical ward, where cases during the time of recovery from surgical operations can be freed from the annoyance incident to occupancy in the main ward. There are at present no separate rooms for such purposes, and the need of such apartments is daily apparent. I would also recommend that from the pay-patient fund now on hand another cottage be erected upon the grounds surrounding the hospital, using it as a delivery room from which patients can be transferred to the main building to await convalescence.

Your attention is invited to the urgent necessity for placing an elevator in the building. The need of such a convenience becomes more and more apparent. The limited number of servants at our disposal renders the serving of meals in the different wards a matter of serious difficulty, and we are compelled to require all those who are at all able to walk, to come down stairs to their meals. This is a source of discomfort, fatigue, and in some instances suffering to the patients. Then again, it is often a matter of considerable difficulty to get very ill patients to the wards and to remove patients to and from the operating room. The ascent and descent of several flights of stairs is very trying at times, and the remedy which an elevator would supply should be furnished at the earliest possible moment.

Another matter which demands consideration is the placing of fire escapes upon the building. The experience of the past year gives ample evidence of the necessity for affording this means of protection to the inmates. Two fires occurred on the premises during the year—one in the main building, and one in the stable. The former resulted from a burning match being thrown into a register by one of the patients; it coming in contact with some inflammable material, ignited and broke out into what might have been a very serious fire. The fire department responded promptly, however, and by their decisive and efficient action stamped it out before any headway was obtained. I desire to return my sincere thanks to the officers and men of the department for their timely services and well-directed efforts on the occasion named. This fire might have resulted in serious loss of property, and perhaps life. In addition to the precautions already taken to prevent the repetition of such an accident, I would earnestly recommend the construction of fire escapes, whereby exit from the upper floors can be readily had. The cause of the fire at the stable is as yet unknown.

The water supply of the building is inadequate, and it is suggested

that a tank be erected in the upper story, and a force pump be supplied, whereby the tank may be kept constantly filled, and a sufficient supply for all purposes guaranteed.

I have to thank most sincerely the gentlemen of the advisory board of physicians and surgeons for their uniform kindness and courtesy, and to acknowledge my indebtedness to the nurses and employés for their faithful discharge of duty.

Your obedient servant,

P. J. MURPHY,
Surgeon-in-charge.

Patients in hospital July 1, 1880	23
Patients admitted during the year.....	348
Total treated during the year ending June 30, 1881.....	371
Discharged during the year.....	338
Died during the year.....	7
Remaining in hospital July 1, 1881.....	26
Prescriptions compounded during the year	2811

Death rate for the year, 1.88 per cent.

The daily average, exclusive of infants, dispensary patients and employés, has been for—

1880.		1881.	
July	32.91	January	35.93
August	35.18	February	37.43
September	33.39	March	38.42
October	34.24	April	32.23
November	39.63	May	36.73
December	38.97	June	29.46
For the year, 35.37.			

NATIVITIES.

Canada	1	Missouri	1
Connecticut	1	New Hampshire	3
District of Columbia	63	New Jersey	1
England	11	New York	14
France	4	North Carolina	2
Georgia	2	Ohio	2
Germany	13	Pennsylvania	14
Illinois	1	South Carolina	2
Ireland	20	Vermont	2
Italy	1	Virginia	134
Maine	1	Wisconsin	1
Maryland	67	Total	371
Massachusetts	7		
Mississippi	3		

White, 225; colored, 146; total 371.

I.—OBSTETRICAL CASES.

Delivered before June 30, 1880, but in hospital July 1, 1880.....	7
Delivered during the year ending June 30, 1881.....	143
Result unknown.....	35
In hospital undelivered July 1, 1881.....	8
Total.....	193
In house July 1, 1881, delivered but not discharged.....	9

Maternal mortality.....	3
Infantile mortality.....	9
Cases of puerperal fever.....	6
Phlegmasia alba dolens.....	1
Still-births.....	5
Abortions.....	2
Miscarriages.....	6
Forceps deliveries at superior straits.....	3
Forceps deliveries at inferior straits.....	3
Adherent placenta.....	5
Retained placenta.....	2
Post-partum hæmorrhage.....	4
Prolapsus funis.....	1
Breech presentations.....	3
Footling presentations.....	2
Contracted pelvis, antero-posterior.....	1
Cases of twins.....	3
Sex of children:	
Male.....	75
Female.....	70
Unknown.....	1
	146

CAUSES OF DEATH.

Maternal:	
Puerperal septicæmia, death on 6th day.....	1
Puerperal septicæmia, death on 11th day.....	1
Phlegmasia alba dolens with pulmonary thrombosis, death on 21st day.....	1
Total.....	3

Puerperal death rate for year is 2.09 per cent. of deliveries.

Infantile:	
Atelectasis pulmonum, living 22 hours.....	1
Inanition, living 61 hours.....	1
Inanition, living 4 days.....	1
Inanition, one of twins, living 36 hours.....	1
Inanition, one of twins, living 4½ days.....	1
Pyæmia and inanition, living 27 days.....	1
Inanition and premature at 7½ months, living 2 days.....	1
Convulsions, death from exhaustion, living 18½ days.....	1
Unknown, premature at 8 months, supposed syphilis, living 3 hours.....	1
Total.....	9

Infantile death rate for year 6.47 per cent.

Of the still-births 1 was at full term, cause prolapsus funis, the patient being admitted during the second stage of labor; 1 at full term, cause unknown, patient entering advanced in second stage; and 3 were premature at 5½, 6½, and 7 months, respectively, cause unknown. Total 5. The 2 abortions were at the 2d and 3d months, cause unknown. Of the 6 miscarriages, 3 were still-born; 2 were advanced to 7½ and 8 months, and subsequently died; while 1 at 8 months lived.

Wet nurses supplied, 4.

II.—MEDICAL AND SURGICAL CASES.

Diseases.	Cured.	Relieved.	Unrelieved or incurable.	Result unknown.	Died.	In house.	Total.
Abscess of anterior vaginal wall.....		1					1
Abscess, pelvic.....	2						2
Abscess of vulvo-vaginal gland.....	2						2
Adenoma mammae.....	2	1					3
Amenorrhœa.....	1	2					3
Anteflexio uteri.....		1					1
Atresia vaginae.....	1						1
Bronchitis, chronic.....				1			1
Carcinoma uteri.....		1	7			1	9

II.—MEDICAL AND SURGICAL CASES—Continued.

Decrease.	Cured.	Relieved.	Unrelieved or incurable.	Result unknown.	Died.	In house.	Total.
Cellulitis, pelvic.....		1					1
Chloro-anæmia.....		2					2
Cystitis, chronic.....		1					1
Cystitis, chronic, and tuberculous inflammation of bowels.					1		1
Cystocele.....		2					2
Cysto-sarcoma of ovary.....					2		2
Diarrhœa, chronic.....					1		1
Dysmenorrhœa.....	1	2		1			4
Elongatio cervicis uteri.....						1	1
Endo-cervicitis.....	11	1		1			13
Endo-cervicitis with epilepsy.....				1			1
Endo-cervicitis, chronic.....	1	1		1			3
Endo-cervicitis, chronic, with hysteria.....	1						1
Endo-cervicitis, chronic, with prolapsus uteri.....						1	1
Endo-metritis.....	12	3				1	16
Endo-metritis and rectitis.....	1						1
Endo-metritis with retroversio uteri.....	1						1
Endo-metritis, chronic.....	8	8		4		1	21
Endo-metritis, chronic, with laceratio cervicis uteri.....	1	2					3
Endo-metritis, chronic, with prolapsus uteri.....		3				1	4
Endo-metritis, chronic, with ulceratio cervicis uteri.....	2						2
Epithelioma vulvæ.....						1	1
Fibroids uteri.....	1	7				1	9
Fistula in ano.....	1						1
Fistula, recto-vaginal.....	1						1
Fistula, vesico-vaginal.....		1					1
Hysteria.....	3	1					4
Hypertrophia cervicis uteri.....		1					1
Laceratio cervicis uteri.....		1					1
Leucorrhœa.....	3	1					4
Menopause.....		3					3
Menopause and hæmorrhoids.....		1					1
Metritis, acute.....	1	1					2
Metritis, chronic.....	1						1
Metritis, chronic, and fistula in ano.....	1						1
Ovarian neuralgia.....	1						1
Ovarian tumor.....	1	1		1			3
Parametritis.....		2					2
Polypus uteri.....	2			1			3
Prolapsus uteri.....	1	1					2
Prolapsus uteri with endo-cervicitis and hypertrophic enlargement of cervix uteri.....	1						1
Prolapsus uteri with ulceratio cervicis uteri.....		1					1
Retroversio uteri.....	2			1		1	4
Retroversio uteri with endo-cervicitis.....	1			1			2
Ruptio perinæ.....	1		1				2
Scirrhus mamma.....	2		1				3
Stricture of rectum and inflammation of vulvo-vaginal gland.....	1						1
Subinvolutio uteri.....	3						3
Suppressio mensium (malarial).....	1						1
Suppressio mensium (pregnancy).....				3			3
Vaginitis.....	5	4		1			9
Vaginitis specific.....							1
Total.....	81	58	9	17	4	9	178

Principal operations performed during the year on patients, all with some disease peculiar to their sex.

Diseases.	Cured.	Relieved.	Unrelieved or incurable.	Result unknown.	Died.	In house.	Total.
Abscess, mammary	6						6
Abscess of anterior vaginal wall		1					1
Abscess, scrofulous		1					1
Abscess of vulvo-vaginal gland	3						3
Abscess, pelvic	2						2
Adenoma, mammæ	2						2
Amputation of cervix uteri	1					1	2
Chronic cystitis (artificial vesico-vaginal fistula)		1					1
Cysto-sarcoma of ovary aspirated					1		1
Fibroid uteri enucleated	1						1
Fistula in ano	2						2
Fistula, recto-vaginal	1						1
Fistula, vesico-vaginal		1					1
Lipoma of left shoulder	1						1
Laceratio cervicis uteri	1						1
Ovarian tumor	1						1
Polypus uteri	2						2
Ruptio perinæi, primary	3						3
Ruptio perinæi, secondary	2		1				3
Scirrhus mammæ	2						2
Stricture recti	1						1
Total	31	4	1	0	1	1	38

Report of the Columbia Hospital Dispensary for the fiscal year ending June 30, 1881.

Patients under treatment at date of last report	33
Patients received during the year	688
Total treated during the year	721
Cured	317
Relieved	132
Unrelieved or incurable	27
Result unknown	119
Died	0
Sent to hospital	85
Under treatment at date of this report	41
Prescriptions compounded	1,414

Combined statement of hospital and dispensary.

	Hospital.	Dispensary.	Total.
Patients under treatment at date of last report	23	33	56
Patients received during the year	348	688	1,036
Total treated during the year	371	721	1,092
Cured	219	317	536
Relieved	58	132	190
Unrelieved or incurable	9	27	36
Result unknown	52	119	171
Died	7	0	7
Sent to hospital		85	85
Under treatment at date of this report	26	41	67
Number of births	143	4	147
Prescriptions compounded	2,811	1,414	4,225

To the Board of Directors of Columbia Hospital:

GENTLEMEN: We have the honor to submit a report of the advisory board of physicians and surgeons of this hospital for the fiscal year ending June 30, 1881.

The successful results of treatment employed in the hospital are again evident, and a source of congratulation to all concerned, and although the rate of mortality has somewhat increased, this need not excite sur-

prise when the character of the cases is considered as shown by the record.

From our experience, observations and constant inspections, we are prepared to state that we do not feel that the outbreak of puerperal septicæmia was due to any negligence or want of care on the part of any one connected with the institution, but rather to a lack of accommodations for lying-in cases, and their thorough separation and isolation from the surgical patients; and we feel it our duty to again renew the suggestion and recommendation made to the board of directors in our last annual report in regard to the extension of the building.

During the prevalence of this disease the most careful and especial attention was paid to cleanliness and disinfection, though apparently, and as is generally the case, without much benefit; and, as a matter of interest, it should be mentioned that of all the obstetrical cases treated in the new cottages, in no instance has an unfavorable symptom developed, thereby confirming the wisdom displayed in their erection; and it is suggested that, in case an appropriation for the extension of the building cannot be obtained, an additional cottage be erected.

The records of the hospital show an increase in the number of outdoor patients of over two hundred and fifty (250), which is gratifying evidence that the benefits of this charity are fully appreciated.

It is still evident that the water supply of the building is deficient, and it is suggested that some means be adopted to meet this want, and we reiterate our recommendation for the introduction of hot and cold water into the consulting and operating room.

We learned with regret that our recommendation for the publication of a report of cases treated in the hospital since our connection with the institution failed to meet with approval. As there is a constant and ever increasing demand for such information as this report could furnish, we again renew the suggestion.

Under the able, conscientious, and careful management of the present surgeon-in-charge, the affairs of the hospital have prospered, and we again, as heretofore, express our appreciation of his valuable services.

Respectfully submitted.

Z. T. SOWERS, M. D., *Secretary.*
J. O. STANTON, M. D.
JAMES T. YOUNG, M. D.
H. C. YARROW, M. D.
ROBERT REYBURN, M. D.

TREASURY DEPARTMENT,
FIRST COMPTROLLER'S OFFICE,
Washington, D. C., November 7, 1881.

SIR: Your account with the United States for the "Columbia Hospital for Women and Lying-in Asylum, District of Columbia, 1881," fourth quarter 1880, and first and second quarters 1881, has been examined and adjusted, per report of the First Auditor, No. 227174, and a balance of \$7.33 found due the United States, agreeing with your statement of the same.

Very respectfully,

WM. LAWRENCE,
Comptroller.

JOHN T. MITCHELL, Esq.,
*Treasurer Columbia Hospital for Women
and Lying-in Asylum, Washington, D. C.*

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 143

John T. Mitchell, treasurer, in account with Columbia Hospital.

1880.		
Aug. 12.	To draft on United States Treasury	\$3,750 00
Sept. 30.	By vouchers to date	3,508 92
	30. Balance on hand	\$241 08
	30. To balance on hand	241 08
Nov. 24.	To draft on United States Treasury	3,750 00
1881.		
Mch. 12.	To draft on United States Treasury	3,750 00
		7,741 08
Mch. 31.	By vouchers, two quarters to date	7,437 24
	Balance on hand	303 84
	31. To balance on hand	303 84
Apr. 23.	To draft on United States Treasury	3,750 00
		4,053 84
June 30.	By vouchers to date	4,046 51
	Balance on hand	7 33

Statement of amounts received from pay patients, and expended, for fiscal year ending June 30, 1881.

1880.		
July 1.	Balance on hand	\$642 79
Sept. 30.	Amount received for quarter	\$506 00
Dec. 31.	Amount received for quarter	1,083 00
1881.		
March 31.	Amount received for quarter	838 00
June 30.	Amount received for quarter	1,161 00
		3,588 00
		4,230 79
June 30.	By vouchers for one year to date	1,347 21
	Balance on hand	2,883 58

We have examined the vouchers for this account and as above stated, and find them correct.

H. A. WILLARD,
F. A. ASHFORD,
Auditing Committee.

Classification of expenditures of Columbia Hospital for Women and Lying-in Asylum, for the fiscal year ending June 30, 1881, as per duly-approved vouchers.

	Treasury account.	Pay-patient account.
Surgical instruments	\$99 80	
Medical supplies	611 10	
Stationery, books and periodicals	20 55	\$56 78
Materials, house furnishing	586 70	102 07
Salaries, including pay-roll	4,712 50	500 00
Fuel	480 03	357 16
Gas	278 30	60 20
Ice	231 95	
Repairs, &c.	999 21	171 00
Subsistence	6,972 53	100 00
	14,992 67	1,347 21
Balance on hand	7 33	2,883 58
	15,000 00	4,230 79

JOHN T. MITCHELL,
Treasurer.

144 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Special appropriation for isolated cottages.

1880.		
Aug. 12.	To draft on United States Treasury	\$3,000 00
1881.		
Feb. 24.	By voucher of Riordan & Driscoll	2,995 00
	Balance on hand	<u>\$5 00</u>

H. C. YARROW,
JOHN T. MITCHELL,
P. J. MURPHY,
Building Committee.

RECAPITULATION.

Amount expended from appropriation for fiscal year ending June 30, 1881.	\$14,992 67
Amount expended from pay-patient fund for fiscal year ending June 30, 1881	1,347 21
Amount expended from special appropriation for isolated cottages	<u>2,995 00</u>
Total	<u><u>19,334 88</u></u>
Average daily expenditure	52 91½

The daily average cost per diem for each patient is \$1.49½, which includes the erection of isolated cottages, repairs upon the building and grounds, and all other expenses incurred during the fiscal year ending June 30, 1881.

To the Board of Directors, Columbia Hospital for Women, Washington, D. C.:

GENTLEMEN: In compliance with section iv, chapter xi, of the by-laws, I have the honor to present the annual report of all personal property under my care belonging to the hospital, a correct account of which will be found in the accompanying record.

Your obedient servant,

P. J. MURPHY,
Surgeon-in-Charge.

To the Board of Directors, Columbia Hospital for Women:

GENTLEMEN: I have the honor to submit for your inspection the accompanying account book, which contains an accurate statement of the number of pay patients for the fiscal year ending June 30, 1881, with the dates of their admission and discharge, and the receipt of the treasurer for all money received from them.

Your obedient servant,

A. L. S. THOMBS, *Matron.*

P. J. MURPHY, M. D.,

Surgeon in Charge Columbia Hospital for Women:

SIR: Herewith I beg leave to submit an inventory of bed and table linen, and all hospital property under my charge, which has been examined by the committee on personal property.

Yours very respectfully,

A. L. S. THOMBS, *Matron.*

WASHINGTON, *October 1, 1881.*

I have periodically inspected the hospital and property in its use, and have made a careful examination of the same just previous to this report. I find the expenditures for household furniture and property of all kinds to have been made with a strict view to economy. The supply is no more than absolutely necessary. Due care seems to have been habitually taken for the preservation of all the articles belonging to the hospital.

E. D. TOWNSEND,
Of Committee on Property.

APPENDIX N.

ESTIMATES.

COLUMBIA HOSPITAL FOR WOMEN AND LYING-IN ASYLUM.

Salaries:

Surgeon-in-charge	\$1,800
Matron	600
General expenses, including subsistence, light, fuel, employment of nurses, servants of all classes, general repairs to building, and care of grounds, in addition to the amount received from pay patients.....	12,600
Total	15,000
For new wing on west side of main building to correspond with the east wing, giving increased accommodation for lying-in patients, and surgical wards, rendered imperative by the increased number of patients; and to give accommodations to the surgeon in charge and his assistants.....	_____

This additional estimate is recommended by the board of directors and advisory board of surgeons.

P. J. MURPHY,
Surgeon-in-Charge.

JOHN T. MITCHELL, *Treasurer.*

O.—REPORT OF THE CHILDREN'S HOSPITAL.

WASHINGTON, D. C., *October 1, 1881.*

GENTLEMEN: I present herewith for your consideration, a report of the practical workings of the Children's Hospital of the District of Columbia, from December 1, 1880, to October 1, 1881, embracing a period of ten months. Upon an examination of the last annual report of the hospital for the year ending December 1, 1880, a copy of which was submitted to you, it will be found that 57 children were under treatment at that date. During the ten months from December 1, 1880, to September 30, 1881, 114 children have been admitted, 68 white, 46 black, making a total of 171 children under 16 years of age who have received medical and surgical treatment, with all their wants supplied by the institution, during the time stated, and making a daily average of $40\frac{88}{100}$ patients, and leaving at this date 47 children under treatment.

On the 1st of December, 1880, 75 children were under treatment in the dispensary; and from that date to September 30, 1881, ten months, 798 patients have been admitted, 275 white, 523 black, making a total of 873 patients in this most important branch of the hospital who have received surgical and medical treatment; and adding thereto the 172 hospital patients, those who have occupied beds in the hospital, makes a total of 1,045 suffering children who have been the beneficiaries of this

charitable institution. During the time stated 6,160 prescriptions have been compounded, 2,826 for hospital patients and 3,334 for those in the dispensary, and 32 surgical operations have been performed. Of the 171 patients treated in the hospital during the ten months, 58 were cured and discharged, 41 improved and removed by their parents, and 5 unimproved and removed, and 20 have died, leaving under treatment September 30, 1881, 47 patients.

This exhibit will, it is believed, impress you with the usefulness, as also the necessity, of an institution of this character, which has contributed so largely to the amelioration of the suffering class of our population, who have found relief through its benevolent workings, and at a mere nominal expense to the District government; Congress appropriating each year simply \$5,000 towards its maintenance and support, and the moiety of which alone is charged to the District government.

Since the date of the organization of the hospital, December 2, 1870, to the present, embracing a period of eleven years, it has been principally supported by the voluntary contributions of our philanthropic citizens, and through whose liberality the board of directors have been able to construct a hospital with all the modern improvements and appliances, requisite for the purposes for which it was founded, which is an ornament to our city, and recognized as *superior* to any institution of the character in the country.

From the treasurer's report, it will be found that the receipts and expenditures on account of the hospital, from December 1, 1880, to September 30, 1881, ten months, were as follows:

Amount of cash on hand December 1, 1880.....	\$453 73
Received balance of Congressional appropriation for fiscal year terminating June 30, 1881.....	2,500 00
General receipts, including subscriptions and donations	2,270 34
Installment of Congressional appropriation for fiscal year terminating June 30, 1882.....	1,250 00
Total receipts.....	6,473 07

The disbursements from December 1, 1880, to October 1, 1881, ten months, for the maintenance and support of the hospital, are as follows:

HOUSE EXPENSES.

Marketing, groceries, bread, milk, coal and wood, gas, ice, dry-goods, and pay of matron, nurses, and servants.....	\$3,591 96
Drugs, medicine, and surgical instruments	645 46
Repairs, plumbing, furniture, advertising, printing, postage, stationery, and telephone.....	1,454 10
Interest on notes due on account of building	680 00
Total disbursements.....	6,371 50

Cash on hand October 1, 1881, \$102.57, which, with the balance of the Congressional appropriation of \$5,000, for the fiscal year terminating June 30, 1882, \$3,750, makes a total of \$3,852.57 for the maintenance and support of the hospital for the eight months terminating June, 30, 1882.

The only paid employes of the hospital are the matron, 4 nurses, and 5 servants, making a total of ten; which, added to the 171 patients, makes a total of 183 persons, including the resident physician and his assistants, who have been inmates of the hospital during the past ten months. The daily expense for the actual maintenance during that time, less the cost of medicine, surgical instruments, books, stationery, improvements, and interest, is a fraction over 65 cents per day for each

person, or \$1.16 and a fraction per day, if including the gross expenses, with the interest account, expended during the time stated. It will be found upon an examination of the records and accounts of the hospital, that its affairs are conducted with the greatest economy, and that thorough system prevails in its respective departments.

During the ensuing year, it is believed that the indebtedness of the hospital, amounting to \$7,000, will be paid, which will lessen the annual expenditure in the matter of interest.

During the past month a tank has been constructed, which will furnish the respective wards of the hospital with an abundant supply of water, which is so necessary, not only for the health and comfort of the inmates, but for the security of the building in the event of fire.

The grounds of the hospital have been improved, and it is contemplated to make further improvements during the next year by planting shade trees and laying out the grounds; and when completed, will present an attractive appearance, and add materially to the improvement of the convalescent patients of the institution.

The thanks of the board of directors and lady visitors, are tendered to your board, for the introduction of a gas lamp in front of the building on W street, and for the promise given by you for the improvement during the fall, of the roadway on that street, and the approaches to the hospital; which, when completed, will add materially to the convenience of the physicians and others identified with the institution, and who have business with it; as this roadway, since the construction of the building, has been almost impassable during the winter, rendering it difficult and dangerous in reaching it; and as the demands upon the hospital are increasing each year, every facility should be afforded by your board to our citizens, in reaching it without difficulty; and we therefore respectfully request that the proper estimates may be made by you for the permanent improvement of this street.

In conclusion, the board of directors and lady visitors of the institution, would be gratified if the members of your board, collectively or individually, would make *monthly inspections* of the hospital, to enable you to determine the effectiveness of its workings, and the economy and system characterizing its management, with reference to embracing in your annual report to Congress, recommendation for the appropriation of \$5,000 towards its maintenance and support.

I have the honor to be, with great respect, your obedient servant,
 SAMUEL V. NILES,
President Children's Hospital.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

P.—REPORT OF THE INDUSTRIAL HOME SCHOOL.

WASHINGTON, D. C., *November 15, 1881.*

GENTLEMEN: We herewith transmit the annual report of the board of managers of the Industrial Home School of the District of Columbia, showing the operations of the institution for the year ending June 30, 1881.

Respectfully,

C. M. MATTHEWS,
President.
 H. W. BLACKFORD,
Secretary.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

The Commissioners of the District of Columbia :

GENTLEMEN: In behalf of the board of managers of the Industrial Home School we beg to present the following report for the past year :

In so far as our report relates to receipts and expenditures of money, it is made to cover the fiscal year ending June 30, 1881; but in order more fully to show the condition and progress of the institution, it has been deemed desirable to extend the report to the 30th day of September last.

The revenues of the school for the last fiscal year were as follows :

July 1, 1880:	
Amount on hand	\$451 51
Appropriation of Congress	10,000 00
District Commissioners, maintenance of paupers	1,430 80
District Commissioners, tree-boxes, &c.....	3,175 24
Tree-boxes, tables, &c., sold.....	63 76
Other sources	555 62
	15,676 93

Expended:

Salaries and entire help	3,177 23
Repairs and permanent improvements	1,433 73
Tree-box lumber	2,375 97
Shoe findings	125 01
Furniture, including crockery and tinware	482 54
Provisions, including milk.....	3,323 23
Hardware, not including stoves.....	307 47
Clothing, including dry goods	1,392 28
Incidentals, including fuel and horse feed	1,404 34
	14,021 80
Balance on hand June 30, 1881.....	1,655 13

In explanation of the foregoing, it should be stated that the school as yet derives no revenues from any of the industries connected therewith, except from the manufacture and sale of tree-boxes; and, as will be seen from the statement elsewhere given, the expense incident to that branch of industry very nearly equals the amount received from the sale of the work, leaving as the main reliance for the support of the institution the appropriations made by Congress. In its proper order we propose to show that the amount thus received is inadequate to the wants of the school, and to assign what seem to us potent reasons for a more liberal appropriation.

A change in the office of superintendent was made February 15, caused by the resignation of Mr. L. Barnes. Mr. W. S. Stockbridge was employed as his successor, at an annual salary of \$1,000, which amount is to cover the salaries of matron and housekeeper.

The number of inmates cared for from October 1, 1880, to September 30, 1881, is, boys 69, girls 40, total 109.

Of these, the number received during the year is 37.

Died.....	1
Left the school by permission.....	33
Left the school without permission	6
Provided with homes.....	20
Returned to friends	12
Number of inmates September 30, 1881	69

IMPROVEMENTS.

The greenhouse referred to in the last report has been completed and put in practical operation, and will receive in another place a description more in detail.

The grounds immediately surrounding the main building have been graded and ornamented with flower beds.

In addition to the swimming-pond a small fish-pond has been excavated, for which the excellent spring adjacent to the houses furnishes an abundance of water.

The cottage provided for in the appropriation for the present fiscal year was contracted to be built for the sum of \$4,606, and on the 28th day of May ground was broken in the presence of many friends of the institution, and with appropriate ceremonies. The building is now rapidly approaching completion, and will be ready for occupancy before the beginning of winter.

As an adjunct to the cottage, a brick spring-house has been erected, at an expense of \$165.

Other improvements of a minor character have been made, all of which serve to add greatly to the comfort and convenience of the Home.

SCHOOLS.

The experience of each succeeding year serves only to increase the gratitude of the managers to the board of trustees of public schools for their generous action in organizing schools and providing teachers for the same at the Home.

The meager appropriation for the Home was thereby relieved of an onerous outlay, and the result has shown that the children have made better progress in their studies. In fact when the varied ages, mental attainments, and former conditions of the pupils are considered, the public school at the Home will compare favorably with the other schools of the District. At the annual exhibition of drawing and penmanship of the public schools of the district, held at Franklin school building, this school was represented in both of these branches of instruction. In addition, the industrial processes were represented by a class of pupils engaged in shoemaking.

There were also exhibitions of scroll-sawing, and samples of sewing, bread and cake making, and a miniature representation of landscape gardening. The exhibition attracted much attention, and was favorably commented upon by the large number of visitors present.

There being many of the children who are below the school age, it became necessary to establish a school to be conducted on the Kindergarten system. The result has been highly satisfactory.

At the beginning of the present school year seven of the pupils were found to be qualified for a grade higher than that taught at the Home and it was thought best to permit them to attend the proper school in Georgetown.

In view of the fact that a portion of the time of some of the pupils must be applied to instruction in the industrial branches in hours which interrupt the regular school studies, it is hoped that the board of trustees will provide special rules which will meet the case and thus permit the two branches of education to be carried on without interfering with each other.

THE INDUSTRIES.

Aside from the special schools connected with the Home, under the discreet management of the superintendent, all boys who possess the age and strength so to do, are from time to time employed in work varied in nature, such as preparing walks on the grounds, attending to household duties, cultivating the garden, and such other acts of labor as occasion

may require. It is of course true that they can only perform boys' labor, and as a rule performed it after the manner of boys. They have neither the age nor the strength to enable them to assume entire charge of any given task, nor, as a rule, have they the habits of industry to lead them voluntarily to work faithfully when not under the eye of a superintendent. Still, the results are all that could have been expected from any class of similar age. Through an arrangement made by the superintendent with the contractor for building the cottage, the boys entered into a subcontract to excavate the cellar. They were allowed pay for this, and completed the job with alacrity. Many of them were allowed to plant small gardens, the products of which were to be their own. All started in with zeal, but many lost their enthusiasm with the advent of hot weather, while others faithfully continued to the end with creditable results.

In connection with this class of industries, it may be proper to refer to the

HOME GARDEN.

The report of the superintendent shows that the living expenses have been materially lessened this year by the success of the garden, to which the labor of the boys has to a large degree contributed. Not only have the expenses been reduced, but the inmates have been provided with a more bountiful and varied table.

THE GREENHOUSE.

The facilities for teaching horticulture were enlarged during the year by the erection of a propagating house wherein the pupils have been taught the process of growing plants by the objective method, each pupil doing the work prescribed by the teacher. The house is 103 feet long by 24 feet wide, and cost about \$2,000. An appropriation of \$200 was recently made by the board of managers for the purpose of stocking the house with winter flowering plants, and it is hoped that this branch of industry will prove to be an attractive and profitable feature of industrial training.

SHOEMAKING DEPARTMENT.

The report of the teacher of shoemaking shows that 43 pupils have attended this school during the year, 9 of whom have been in attendance the entire term, and 34 from two to eight months. The school was divided into four classes of eight pupils each, the time given each class being two hours per week. Forty-five pairs of shoes were made and sixty-seven pairs half-soled.

WOOD-WORK.

This branch of industry has been restricted mainly to the manufacture of tree-boxes and stakes for the parking commissioners of the District, for the reason chiefly that such work can, at least, be made to pay expenses, and sometimes it yields a small profit.

For several years all the tree-boxes used by the parking commissioners have been supplied by the Home. Several scroll-saws have been provided for the school, in the use of which the boys show a willing readiness to engage.

THE SEWING-SCHOOL.

Two sewing classes of girls have been organized, and each receive five hours' instruction a week by a competent teacher. The younger class is

taught overhanding, felling, hemming, and the making of patchwork, while the older class is instructed in finer sewing and the putting together of garments. Besides sewing, the girls old enough for the task have regular household duties to perform each day, and those most mature are taught bread-making and plain cooking.

THE HEALTH OF THE INMATES.

The location of the school has been known for years prior to its present use as a remarkably healthful one. Its elevated situation insures pure air, while the never-failing spring furnishes a constant supply of pure water. With many of the children when first entering the school the results of former unfavorable sanitary conditions of life are painfully apparent, but a residence of a few months at the Home seldom fails to remove all traces of ill health when not caused by diseases inherited from dissolute parents.

The present year, however, has been marked with an unusual amount of sickness, owing to the advent of the measles among the children. At one time 26 were ill with the disease. No adequate hospital accommodations were at hand, and a hospital-room had to be improvised and nurses employed. But one death occurred, that of Cora Gray, aged four years. This, with a death which occurred in 1878, is the extent of the mortality list since the school has occupied its present location.

Moved by a realization of the need of better provision to meet such exigencies, some of the friends of the institution held a fair at the house of Dr. J. F. R. Appleby, in Georgetown, which resulted in securing a fund of \$120 for hospital purposes.

The swimming-pool has proved to be an excellent sanitary feature for children of both sexes, to whom it is a never failing attraction in the summer. Its usefulness is further shown in the fact that seventeen of the inmates learned to swim during the last season.

The managers desire to express their thanks to the directors of the Children's Hospital, who have very kindly granted them the privilege of sending children needing special treatment to that excellent institution.

As a summary of the proceedings of the year, it can be said the Home has made greater advances than in any previous year. More has been accomplished in every department with a proportionately smaller outlay of money.

We feel it is but simple justice to state that much of this is due to the efficiency of our superintendent. Under his supervision the premises have been greatly improved externally and internally, better discipline prevails among the children, and in the purchase of articles needed for the Home a great reduction in prices has been effected.

THE OBJECT AND WANTS OF THE HOME.

Before closing this report the managers beg to add a few words respecting the Home for the better information of the public, hoping thereby to enlist the good citizens of the District in efforts in its behalf. The Industrial Home School supplies a much needed want in the way of public charity in the District. It is not an orphan asylum, although orphans are admitted. It is not reformatory, but on the contrary seeks for its inmates those who are not naturally vicious. It is rather a child-saving institution to which are admitted children of either sex, who are left in such condition of life as to endanger their future usefulness in the world. They may be orphans or they may be the children of dissolute parents. There is no institution aside from this to which the last named class can

be sent—or they may be the children of destitute parents. While the parents may find refuge in the almshouse, it will be conceded that an institution of that kind, even when most favorably managed, is hardly a proper place in which to rear young children. The same may be said of children of mothers who are committed to our prisons. For all these classes the Home provides the only refuge among our public charities. In caring for such inmates it is intended to afford a moderate education for the head and the hand. As rapidly as is consistent with the welfare of the children, suitable homes are provided them, usually in the country. The last year has been a fortunate one in this respect, there having been more of a demand for children than the Home could supply from those who were of sufficient age to be sent out, which demand has doubtless been created through a better knowledge on the part of the public of the system on which the Home is conducted. The applications for admission to the Home have been largely in excess of our ability to grant, and in many cases great hardship has been the result.

We need more room and more money.

Viewed from the standpoint of charity, the management think large appropriations should be provided. It is better to prevent pauperism by fitting these children for the struggle of life than to permit them to grow up as mendicants.

Viewed from the standpoint of economy, the Home deserves better recognition. It is more economical to prevent crime than to punish it. The expense incurred in the conviction and punishment of juvenile offenders in the District far overbalances what would answer the purposes of the Home in the prevention of crime.

By carefully taking children from unworthy parents, by educating them and training them in habits of industry, by surrounding them with refining and moral influences, and providing them with profitable homes, the state will lessen its future army of vagabonds, and reduce the number of crimes and criminals.

Our object is to give back to the District in return for money expended on the Home, good men and women who, under other influences, would probably become either paupers or criminals.

JOSEPH M. WILSON.

W. W. CURTIS.

M. H. DOOLITTLE.

HULDAH W. BLACKFORD.

Q.—REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

WASHINGTON, D. C., *September 30, 1881.*

GENTLEMEN: I would respectfully call your attention to the condition of the public hay scale at Tenth street and Louisiana avenue, northwest. Since its location at that point it has frequently required repairs, the latest occasion being within the month of August ultimo. If carefully used it may last during the year, but not much longer. I respectfully suggest that it would be well to ask an appropriation of \$500, or so much thereof as may be needed, to purchase a new scale and to repair such of the others as may from time to time require it.

I am, your obedient servant,

JAMES SMALL,

Sealer of Weights and Measures for the District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R.—ESTIMATE OF THE ENGINEER IN CHARGE OF THE WASHINGTON AQUEDUCT AND THE BRIDGES IN THE DISTRICT OF COLUMBIA.

OFFICE OF THE CHIEF OF ENGINEERS,
UNITED STATES ARMY,
Washington, D. C., August 19, 1881.

SIR: Your letter of the 15th instant (No. 15399), addressed to Lieut. Col. Thomas Lincoln Casey, Corps of Engineers, requesting to be furnished with estimates of the amount required for the fiscal year, ending June 30, 1883, for the support of the Washington aqueduct and of all bridges in the District of Columbia under the charge of the Engineer Department, has been submitted to this office.

The estimates referred to are as follows, viz:

WASHINGTON AQUEDUCT.

For engineering, maintenance, and general repairs	\$20,000	
For construction of the dam at Great Falls	200,000	
For improving grounds at the receiving reservoir	1,000	
For building fences around government lands at the receiving reservoir	7,000	
For soiling, sodding and seeding the embankment and excavation slopes of the distributing reservoir and of the conduit	15,000	
For building an overfall over the conduit for the waste water of the receiving reservoir	2,000	
For continuing the macadamizing of the conduit road	10,000	
		\$255,000

CARE AND REPAIR OF BRIDGES.

For ordinary care of Benning's, Anacostia, and Chain bridges, including fuel, oil, lamps, matches, &c	2,000
---	-------

Very respectfully, your obedient servant,

H. G. WRIGHT,
Chief of Engineers, Brig. and Bvt. Maj. Gen.

Hon. J. DENT,
President Board of Commissioners of the District of Columbia.

S.—ESTIMATE OF THE TRUSTEES OF THE REFORM SCHOOL.

REFORM SCHOOL OF THE DISTRICT OF COLUMBIA,
Washington, September 28, 1881.

GENTLEMEN: I have the honor to submit the following estimates of appropriations required by the Reform School of the District of Columbia, for the fiscal year ending June 30, 1883, viz:

SALARIES.

1 superintendent	\$1,500
Assistant superintendent	1,000
4 teachers, at \$750 each	3,000
Matron of school	600
1 matron of family	180
1 matron of family	144
Farmer	540
Superintendent of chair shop	500

154 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

1 shoemaker.....	\$300
1 baker.....	300
1 engineer.....	300
1 tailor.....	180
1 seamstress.....	144
1 dining-room servant.....	144
1 chambermaid.....	144
1 laundress.....	144
1 florist.....	240
1 cook.....	180
1 watchman.....	360
2 watchmen, at \$360 each.....	720
	10, 620

SUBSISTENCE.

Groceries.....	\$5, 000
Flour.....	3, 000
Meat.....	2, 000
Dry goods.....	2, 600
Leather.....	600
Gas.....	600
Coal.....	2, 200
Hardware, table and woodware.....	554
Furniture.....	600
Farm implements and seed.....	600
Harness and repairs of the same.....	300
Fertilizers.....	500
Stationery and books.....	300
Plumbing, painting and glazing.....	600
Medicine and medical attention.....	600
Miscellaneous expenses.....	1, 000
	21, 054

HEATING APPARATUS, STOCK, ETC.

For purchase of two new boilers and repairing to the heating apparatus....	\$5, 000
For purchase of stock.....	1, 000
For fencing.....	1, 000
Total.....	7, 000

The heating apparatus is not only inadequate for the wants of the school, but is nearly worn out, and it will hardly answer for the present winter, and it is indispensably necessary that new boilers be purchased, and the present heating arrangements overhauled before next winter. An appropriation for this purpose is earnestly requested by the board of trustees.

There is no fencing of any amount upon the premises, and the amount asked for this purpose is very much needed. Also the amount asked for the purchase of stock, as a great deal of the stock now on hand will have to be disposed of and other purchased in its stead.

It is the earnest wish of the board that you will give these estimates your careful attention, and recommend the same to Congress.

Very respectfully, your obedient servant,

A. J. FALLS,
President of the Board of Trustees.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

MEM.—The report for fiscal year ending June 30, 1881, made to Attorney-General. Report for 1882 will be made to Commissioners of the District of Columbia, pursuant to law of March 3, 1881.

T.—REPORT OF THE CENTRAL FREE DISPENSARY.

OFFICE CENTRAL FREE DISPENSARY
AND EMERGENCY HOSPITAL,
Washington, D. C., August 31, 1881.

GENTLEMEN: I am instructed by resolution of the board of directors of the Central Dispensary and Emergency Hospital to bring to your attention the great worth of the remedial charity we have in charge, and to ask that in your next annual estimates it may be placed upon the regular list of public charities, and that an annual appropriation of \$5,000 be asked for its support from Congress, to be disbursed by the Commissioners of the District of Columbia.

The last annual report of the dispensary (copy herewith) shows that during the year ending March 31, 1881, nearly 19,000 prescriptions had been given and compounded in the institution; that it had, during that year, been visited by nearly 6,000 new patients, and that 171 surgical operations had been performed.

With such a showing as this, we may surely hope to be classed among the public charities of the city.

In addition to this we have, since July 1, 1881, in order to meet a pressing public need, embodied in our institution an emergency hospital, and have removed to a central location, at a heavy increase of expense, in order to afford the best facilities for receiving and attending all casualty and accident cases. That the service has proved a desideratum, we need only refer to the police reports to demonstrate how completely it has met the public needs.

In a work of this character the service constantly and rapidly extends, and the expense is proportionately increased. It has even now outgrown the slender and precarious support of private contributions, and we are compelled to appeal for Congressional aid.

With commensurate funds the service can be lifted beyond the griping economies which so frequently paralyze the best professional effort.

I am yours, respectfully, &c.,

J. B. WILSON,
President.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ANNUAL REPORT OF THE CENTRAL FREE DISPENSARY OF THE DISTRICT OF COLUMBIA.

THE CENTRAL FREE DISPENSARY.

(416 Tenth street, between D and E streets, northwest.)

Open daily from 1 to 3 p. m., Sundays and legal holidays excepted.

The payment of \$5 per annum constitutes a contributing member.

Number of new cases treated from April 1, 1880, to March 31, 1881, 5,575. Number of prescriptions filled, 18,952.

This institution furnishes, without charge, medical and surgical aid and medicines to the sick poor of the District of Columbia.

It is designed to relieve and restore to health and labor the poor who are afflicted by sickness.

It restores to many their only means of support, and thus prevents pauperism and crime.

It vaccinates all who apply.

It is the most important sanitary protector, and by far the most inexpensive charity, ever established in this city.

It is beneficial to the taxpayers, for it keeps many of the sick poor and their families from becoming a charge on the city, in the hospital and almshouse.

Its managers and attending physicians all serve without pay.

It is largely dependent upon voluntary contributions for its support.

To enable it to do this useful and humane work, it asks from you an annual contribution for its necessary expenses.

It needs this from YOU and THE FRIENDS of the sick poor now.

Contributing members are requested to pay their annual dues to the treasurer of the dispensary on or before the 1st day of April, each year.

All who desire to obtain a better personal knowledge of the necessity for such institutions, their practical work for and benefit to the sick poor, and their claims on the liberality of our citizens, are invited to visit the dispensary and judge for themselves.

"Withhold not good from them to whom it is due, when it is in the power of thine hand to do it. Say not unto thy neighbor, 'Go, and come again, and to-morrow I will give,' when thou hast it by thee."

OFFICERS.

JESSE B. WILSON, <i>President</i>	429 Sixth street, northwest
JOHN A. BAKER, <i>Vice-President</i>	340 Indiana avenue.
B. U. KEYSER, <i>Secretary</i>	201 E steet, northwest.
D. W. MIDDLETON, <i>Treasurer</i>	1427 F street, northwest.

BOARD OF DIRECTORS.

JAS. W. BARKER.	W. G. METZEROTT.
F. HOWARD, M. D.	JAS. E. MORGAN, M. D.
JESSE B. WILSON.	WM. R. WOODWARD.
F. PILLING.	R. REYBURN, M. D.
L. MACKALL, M. D.	C. C. DUNCANSON.
J. W. DREW.	JOHN A. BAKER.
P. R. WILSON.	A. PATZE, M. D.
N. S. LINCOLN, M. D.	W. C. BRISCOE, M. D.
A. Y. P. GARNETT, M. D.	G. L. MAGRUDER, M. D.
H. H. BARKER, M. D.	S. M. BURNETT, M. D.
JOHN WALTER, M. D.	RALPH WALSH, M. D.
JOHNSON ELIOT, M. D.	W. M. GALT.
T. P. MORGAN.	B. U. KEYSER.
D. W. MIDDLETON.	

EXECUTIVE COMMITTEE OF BOARD OF LADY VISITORS.

Miss M. F. WAITE, <i>President</i> .	Mrs. WENDELL.
Mrs. D. J. MCCARTY, <i>Vice-President</i> .	Mrs. BRADLEY.
Miss LIDA MILLER, <i>Secretary</i> .	Miss MIDDLETON.
Mrs. M. CHURCH, <i>Treasurer</i> .	Mrs. H. E. PAINE.
Mrs. W. M. GALT.	Miss MEIGS.
Mrs. J. B. SIMMES.	Miss L. TAYLOR.

FINANCE COMMITTEE.

J. B. WILSON.	THOS. P. MORGAN.
WM. R. WOODWARD.	H. H. BARKER, M. D.
D. W. MIDDLETON.	

COMMITTEE ON SUPPLIES.

J. B. WILSON.	P. R. WILSON.
J. E. MORGAN.	J. W. BARKER.

Executive officer of attending staff, ex officio.

VISITING COMMITTEE.

Consists of two non-medical members of the board of directors, appointed monthly by the president of the board.

CONSULTING BOARD.

J. ELIOT, M. D.
J. E. MORGAN, M. D.
R. REYBURN, M. D.
N. S. LINCOLN, M. D.

F. HOWARD, M. D.
L. MACKALL, M. D.
A. PATZE, M. D.
A. Y. P. GARNETT, M. D.

ATTENDING STAFF.

DEPARTMENT OF DISEASES OF WOMEN AND OBSTETRICS.
(Monday and Thursday, 2 to 3 p. m.)

H. H. BARKER, M. D. No. 1116 H street, northwest.
J. A. TARKINGTON, M. D., assistant. No. 217 D street, northwest.

DEPARTMENT OF SURGERY AND SKIN DISEASES.
(Wednesday and Saturday, 2 to 3 p. m.)

W. C. BRISCOE, M. D. No. 317 C street, northwest.
L. K. BEATTY, M. D., assistant No. 128 Eleventh street, southeast.

DEPARTMENT OF GENERAL AND NERVOUS DISEASES.
(Tuesday and Friday, 2 to 3 p. m.)

JOHN WALTER, M. D. No. 1010 F street, northwest.
J. S. HARRISON, M. D., assistant. No. 1911 I street, northwest.

DEPARTMENT OF DISEASES OF CHILDREN.
(Monday and Thursday, 1 to 2 p. m.)

G. L. MAGRUDER, M. D. No. 310 E street, northwest.
R. T. HOLDEN, M. D., assistant. Corner of Third and G streets, southwest.

DEPARTMENT OF DISEASES OF EAR, THROAT, AND CHEST.
(Wednesday and Saturday, 1 to 2 p. m.)

RALPH WALSH, M. D. No. 332 C street, northwest.
G. W. COOK, M. D., assistant No. 1502 S street, northwest.

DEPARTMENT OF DISEASES OF THE EYE.
(Tuesday and Friday, 1 to 2 p. m.)

S. M. BURNETT, M. D. No. 1215 I street, northwest.
JOHN PARSONS, M. D., assistant. No. 416 Tenth street, northwest.

RESIDENT PHYSICIAN.

JOHN PARSONS, M. D.

RESIDENT STUDENT.

J. J. MARKRITER.

MATERNITY SERVICE.

Dr. H. H. BARKER, in charge.

VISITING PHYSICIANS.

THE ASSISTANT STAFF.

EXECUTIVE OFFICERS.

January and July	H. H. BARKER.
February and August	W. C. BRISCOE.
March and September	S. M. BURNETT.
April and October	G. L. MAGRUDER.
May and November	RALPH WALSH.
June and December	J. WALTER.

CLINICAL ASSISTANTS.

JOHN J. MARKRITER.
H. L. E. JOHNSON.
R. MUNSON.

T. N. McLAUGHLIN.
W. L. MILLER.
L. KOLIPINSKI.

JANITRIX.

Mrs. GEORGIE FEETE Dispensary.

ADDRESS.

WASHINGTON CITY, D. C., April 11, 1881.

To the Board of Directors of the Central Free Dispensary:

GENTLEMEN: In obedience to your instructions, the undersigned, your committee appointed to prepare and publish the annual report of the operations of the dispensary during the year ending March 31, 1881, beg to submit to you, to its patrons, and to the public, the following statement of cases treated, which has been carefully elaborated from the books of current record by the attending staff, which, with its tabulated recapitulation, cannot fail to impress the most casual observer with the magnitude and importance of the noble work we have in charge.

It is surely a sublime scheme of remedial philanthropy which can point as its results to the fact that during the year just closed 5,575 applications have been made by the suffering poor; that not one has been refused the treatment which the case demanded; that the large number of 18,952 prescriptions have been compounded; that 171 surgical operations have been performed; that 13 persons were treated as in-patients, representing 75 days of maintenance; and that the total cost of this immense work has been but \$2,249.72.

The gentlemen of the attending staff who, with noble self-sacrifice and gratuitous contribution of time and talent, have wrought this record of well-doing, need no word of commendation from us. Any attempted expression of thanks would be but feeble effort, falling far short of the occasion. Reward, if it can be furnished in this world, must be found only in the consciousness of having consecrated their time and capabilities to the fulfillment of the divine command.

In the early part of the year it was found that in consequence of the limited space afforded by the premises then occupied for dispensary purposes, the best attainable results could not be secured, and it was deemed advisable to obtain the use of the adjoining dwelling at a rent for the two slightly in excess of what had been originally paid for one. This increased accommodation has proved to be of great utility; but even now, with enlarged demands for dispensary services, comes the necessity for more commodious premises, and the question of providing for this want has pressed itself upon the board.

The dispensary is open for applicants on every day of the week (except Sunday) from 1 o'clock until 3 o'clock, but it is generally found that these hours are materially extended. Whilst so open, the rooms and passage ways of the building are occupied by a throng of patients waiting their turn for treatment, which is given in regular order; and on the days of infant treatment the throng is of course far greater, for the reason that each little one is accompanied by one or both parents. This crowding necessarily occasions more or less confusion which is prejudicial to the best professional attention.

In this juncture the Commissioners of the District have happily come to our relief by offering to the dispensary the use of handsome and ample accommodations in a building about to be erected for police purposes at the northwest corner of Ninth street and New York avenue. This offer has been cheerfully accepted by the board.

The public architect in preparing for the building was directed to confer with the dispensary, and embrace such details for the portion to be allotted to that service as the experience of your board might show to be necessary. This has been done; the requisite funds are on hand, and the work of construction will be pushed rapidly forward to completion. It is expected that the building will be ready for occupation by November 1, 1881.*

* Since the above was written the proposed arrangements for enlarging the accommodations of the Dispensary have been modified. The Commissioners of the District having abandoned the project of erecting a building for police purposes at Ninth street and New York avenue, the dispensary has leased the large brick building at 416 Tenth street, between D and E streets, and adjoining the police station. This building will be at once fitted for occupation as a dispensary and emergency hospital, and it is expected to remove to that place July 1, 1881.

The importance of making some provision by means of an emergency hospital for cases of accident occurring within the city limits has long been felt by the board, and during the year just closed, fortified with data obtained through the courtesy of Major Brock, Chief of Police, and aided by the recommendation of the District Commissioners, a strenuous effort was made to obtain from Congress a small appropriation which would enable the dispensary, with the appliances already at its command, to establish immediately such an institution in connection with its more regular service. Unhappily the effort failed; but the good results of the attempt have crystallized into a proposition from the District Commissioners to embrace the emergency hospital service within the duties of the dispensary, providing means and accommodations for both in the new building, Ninth street and New York avenue.

This emergency hospital service does not aim to take permanent care of accident cases, but merely to take measures for temporary relief, perhaps involving transient sojourn at the dispensary until the patient is in fit condition for removal to his home or to some hospital. These accident cases—and they are of almost daily occurrence—are now taken to the nearest police station, and a physician summoned, who, when he reaches the place, often after long delay, finds himself hampered and prevented from giving proper professional attention for want of necessary apparatus and appliances.

At the proposed hospital, the cases arriving by means of the police ambulance, within a few moments of occurrence, would meet immediate and scientific treatment, for want of which many lives are now endangered.

The dispensary mourns the sudden death of Mr. W. H. Gibbs, who for many years performed with marked ability and zeal the arduous duty of apothecary to the institution. Suitable action was taken by the staff under whose immediate direction his service had been performed, and resolutions of sympathy and condolence were adopted and transmitted.

The *personnel* of the board has during the year undergone some change. Mr. Wm. M. Galt, who was president at the date of the last report, resigned that position. He was succeeded by Mr. T. J. Durant, who in turn resigned that position and his membership in the board. This latter's resignation left the board at the close of its year without a presiding officer, which accounts for the preparation of this report having been delegated to a committee.

At the date of the last report (April, 1880) the institution was receiving from the District government, out of the charity fund, a monthly allowance of \$200, which, with the private subscriptions from friends and patrons, barely sufficed to defray the heavy and growing expenses of a daily enlarging service; but in August, 1880, the Commissioners notified the board that in consequence of heavy demands upon that fund, rendered necessary by a long and rigorous winter, they would be compelled to reduce the monthly allowance to \$150 from and after August 1, 1881; at which figure it remains at this date. This reduction seriously cripples the resources and impairs the usefulness of the institution, and it behooves its friends and patrons to come to its assistance with private contributions.

For this aid we earnestly appeal to the charity and generosity of those whom God hath blessed, that they may be the instruments for blessing others.

Your committee find ample occasion of congratulation in the valuable services rendered to the institution by the energetic and zealous board of lady managers (Miss M. F. Waite, president), who have been instrumental in securing a large share of the contributions of funds of which the dispensary always stands in great need.

JESSE B. WILSON,
B. U. KEYSER,
SWAN M. BURNETT,
Committee.

REPORT OF ATTENDING STAFF.

To the Board of Directors of the Central Free Dispensary:

GENTLEMEN: In placing before you this, our tenth annual report, we have pleasure in announcing the increasing good work of the institution. The legitimate work of the dispensary is in excess of last year, and for the coming year bids fair to be much further extended.

We congratulate you, our friends and ourselves upon the prospect of a speedy removal to more commodious quarters, where our work can be more easily and thoroughly done.

We take pleasure in calling your attention to the fact that our institution is assuming importance from an educational point of view. The large number of patients and the great variety of diseases to be seen have been promptly recognized by the medical students of our city.

During the latter part of the last session, one day in each week was set apart for

clinical instruction and the performance of the more important operations, at which time we found our rooms crowded with students.

With the opening of the fall term at the colleges, these facilities will be still further increased, and one of the prime objects of our organization be more thoroughly fulfilled.

There have been some changes in the assistant staff since last report. We have lost the services of Drs. Adams, McArdle, and Acker by resignation. Their places have been filled by the election of Drs. Cook, Holden, and Beatty. We have also had a sad loss in the death of our most efficient druggist, Mr. W. H. Gibbs.

We have created, at your suggestion, the posts of house physician and resident student. To the former of these Dr. Parsons has been elected, and to the latter Mr. J. J. Markriter.

To Dr. Parsons we are indebted for the preparation of the following synopsis of the cases treated during the year.

We are also indebted for dental service to Dr. Noble.

H. H. BARKER,
W. C. BRISCOE,
JOHN WALTER,
G. L. MAGRUDER,
RALPH WALSH,
SWAN M. BURNETT,
Attending Staff.

Tabular statement of diseases treated at Central Free Dispensary during the fiscal year ending March 31, 1881.

Diseases.	Number treated.	Diseases.	Number treated.
Abrasion	1	Catarrh, nasal	19
Abscess	6	Cellulitis, pelvic	37
alveolar	1	cervical	5
facial	1	Cephalalgia	1
maxilla	7	Cerebro-spinal meningitis	37
orbital	1	Cerumen, accumulation of	1
pelvic	1	Chalazion	3
perineal	1	Chancroid	21
psoas	1	Chlorosis	47
uteri	1	Cholemia	1
of scalp	1	Chorea	1
Acne	10	Choroiditis disseminata	4
Adenitis, scrof.	50	Condylomata	3
Alcoholism	5	Conjunctiva, ecchymosis of	4
Amaurosis	1	hyperæmia of	2
hysterical	1	Conjunctivitis	111
Amblyopia	1	catarrhal	1
Amenorrhœa	5	follicular	2
Anasarca	1	muco purulent	1
Ankylosis	1	peri keratitic	1
Ankyloglossia	10	phlycten	3
Anæmia	13	purulent	6
Anthrax	4	Constipation	232
Aphthæ	5	Contusion	33
Arthritis	4	Convulsions	1
Ascarides	11	Cornea, abscess of	1
Ascites	4	foreign body in	4
Asthénia	12	herpes of	3
nervous	118	leucoma	23
Asthma	13	perforation of	2
Astigmatism, myopic ..	1	staphyloma of	2
com. myopic	1	ulceration of	3
Atresia vaginæ	1	Corneal cystoid scar	1
Balanitis	6	Corns (Clavus pedis)	3
Blepharitis	34	Coryza	1
Bronchitis, acute	453	Cyclitis	1
capillary	5	Cystitis	7
chronic	3	Dacryocystitis	7
Bronchocele	1	Deafness	1
Bubo	33	Debility	90
Burn	6	from lactation	6
Cancer of uterus	1	senile	1
Calculus, vesical	3	Dentition	3
Caries of inf. max.	1	Diabetes	1
Caruncle, irritable	1	Diarrhœa	100
urethræ	3	Diplopia	1
Cataract	14	Diphtheria	4
incip	4	Dislocation of humerus	1
secondary	1	knee joint	1
traumatic	2	thumb	1

Tabular statement of diseases treated at Central Free Dispensary—Continued.

Diseases.	Number treated.	Diseases,	Number treated.
Dislocation of toe	1	Heart, tobacco (Da Costa)	4
Dysentery	36	Hemicrania	1
Dysmenorrhœa	16	Hemiplegia	2
Dyspepsia	245	Hernia	1
Dysuria	2	inguinal	30
Ear, ext., inf. of	1	inguinal double	5
mid., catarrhal inf. of	2	labial	1
mid., pur. inf. of	10	scrotal	2
Ecchymosis	7	umbilical	5
Ectropion	1	Herpes	8
Eczema	72	circin	6
facialis	1	labialis	5
impetig	6	zoster	4
of eyelid	1	Hordeolum	2
Emphysema	1	Hydrarthrus	1
Enciente	49	Hydrocele	4
Enchondroma	1	Hydrocephalus	1
Endocervicitis	12	Hypermetropia	7
Endometritis	61	Hypertrophy of nail	1
Enteralgia	13	of nose	1
Enteritis	1	Hyphæmia ant. chamber	1
Enterocolitis	1	Hypochondriasis	2
Entropion	2	Hysteria	8
Epididymitis	6	Icterus	3
Epilepsy	13	neonant	1
Epiphora	5	Impotency	3
Episcleritis	2	Inanition	1
Epistaxis	4	Indigestion	12
Erysipelas	5	Insomnia	1
Erythema	7	Intertrigo	1
Eustachian tube, inf. of	1	Irido-cyclitis	2
Excoriation	1	choroiditis	1
Exophthalmus	1	Iritis	11
Exostosis	1	spec.	5
Favus	2	Keloid	4
Fever, catarrhal	8	Keratitis	40
continued	1	diffus	5
intermittent	366	pannosa	1
remittent	6	parenchymatous	1
simple	2	phlycten	6
Fish-bone in throat	1	punctata	1
Fissure of rectum	1	vesiculosus	1
Fistula in ano	6	with hypopion	1
ves. vag.	1	Kerato-iritis	4
Flat foot (platypodia)	2	Labia, cyst of	2
Flatulence	2	hypertrophy of	1
Folliculitis auris	6	Lachrymal puncta, closure of	1
Foreign body in œsophagus	1	Laryngitis	23
bladder	1	syphilitic	1
ear	2	tubercular	1
Fracture of clavicle	3	Leucoma adherens	4
fibula	1	Leucorrhœa	95
finger	1	Lichen	15
radius	2	Lumbago	25
radius and ulna	2	Lumbricoides	112
Frost-bite	3	Malaria	126
Furuncle	8	Mammitis	2
Gastralgia	5	Marasmus	2
Gastritis	1	Mastitis	1
Gastrodynia	1	Mennorrhagia	23
Gingivitis	2	Menses, retarded	6
Glands, enlarged	4	suppression of	80
indurated	2	Menstruation, irreg.	1
Glaucoma	2	vicarious	2
Gleet	16	Metrorrhagia	18
Glossitis	1	Migraine (hemicrania)	1
Gonorrhœa	78	Miscarriage	2
Hæmatemesis	1	threat	2
Hæmatocele	1	Morbus, Brightii	2
Hæmaturia	1	coxarius	1
Hæmatoma	1	Myalgia	11
Hæmeralopia	2	Myopia	3
Hæmoptysis	10	Nævus	2
Hæmorrhoids	27	Nasal duct, strict. of	4
Heart, aortic stenosis	6	Necrosis of tibia	2
aortic and mit. sten.	1	Nephritis	1
debility of	10	Neuralgia	60
irritable	20	facial	3
fatty	1	intercostal	1
mit. regurg.	19	sup. orbital	1

162 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Tabular statement of diseases treated at Central Free Dispensary—Continued.

Diseases.	Number treated.	Diseases.	Number treated.
Nyctalopia	1	Spermatorrhœa	6
Odontalgia	53	Spine, angular curvature of	1
Occlusion of pupil	2	injury of	3
Edema of ankle	1	lat. cur. of	1
of eyelid	1	Spinal irritation	1
Onychia	4	Spleen, enlarged	1
Ophthalmia, neonat.	3	Sprain	33
Optic nerve, atrophy of ..	5	Stomatitis	6
Orchitis	9	Strabis. conv.	4
Otalgia	2	Stricture, urethral	4
Otitis	3	Sudamina	1
Ovary, neuralgia of	5	Swelling of cheek	1
Ozæna	1	Synovitis	3
Panophthalmitis	3	Synovial cyst	1
Paralysis	4	Syphilis	139
diphtheritic	1	cong.	32
facial	1	Tabes mesenterica	1
partial	2	Talipes equino varus	1
reflex	7	Tania	1
Paresis, ext. rect. of eye ..	4	Tinea	3
Paraphymosis	1	circin.	2
Paraplegia	2	favosa	1
Parotitis	8	Tonsillitis	67
Pediculi pubis	1	Tonsil, hypertrophy of	3
Pediculi	4	Trachoma	6
Pemphigus	5	Tumor	9
Periostitis	1	cystic	3
Pharyngitis	133	gummatous	1
follic.	13	sebaceous	1
syphic.	2	Tuberculosis	20
Phthisis	120	Tumor of eyelid, sebaceous ..	2
incip.	10	inner canthus of eye	1
laryngeal	3	Ulcer	10
Pinguecula	1	of breast	3
enlarged	1	on leg	19
Pleuritis	5	on lip	1
Pleuro-pneumonia	1	on foot	1
Plurodynia	38	varicose	2
Pneumonia	5	chronic	1
Polypoid growth of eyelid ..	1	Ulceration of gums	1
Pott's disease	6	Urine, incontinence of	10
Perineum, laceration of	1	Urticaria	24
Presbyopia	2	Uterus, antiflexion	2
Prepuce, adherent	2	antiversion	26
Prolapsus ani	2	areola hyper	34
iridis	2	atrophy of	4
vagina	3	cervix, elongation of	2
Prostate gland, hypertrophy of	2	cervix, laceration of	1
Prolapsus recti	1	fibrous tumor of	1
Prurigo	4	lateroversion	6
Pruritus	1	polypus of	1
vulvæ	1	prociencia	1
Psoriasis	4	prolapsus	24
vesicolor	1	retroflexion	4
Pyrosis	4	retroversion	36
Pityriasis	2	Vaginitis	1
Pterygium	1	Varicella	7
Pupil, closure of, from iritis	1	Varicocele	1
Purpura	1	Varix	4
Rachitis	12	Vertigo	1
Retina, detachment of	1	Verucca	5
hemorrhage into	2	Vesical catarrh	1
Retinitis pigmentosa	1	irritability	26
Rheumatism	216	Vit. humor, opacity of	2
acute articular	1	Vomit	1
muscular	4	Vulvitis	7
Rubeola	4	Whitlow	8
Scabies	4	Wound, contused	3
Scarlatina	1	gunshot	5
Sciatica	2	incised	13
Scorbutus	2	laceration	17
Scotoma	2	poisoned	2
Serofulosis	49	punctured	6
Senile cough	1		
Shoulder joint, infl. of	1	Total	5, 249

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA 163

Number treated at Central Free Dispensary	5,249
Failed to report	229
Failed to return	4
No diagnosis	9
Sent to Children's Hospital	1
Referred to ward physicians	5
Refused treatment	41
Refused to be treated	4

Total	5,575
Males, white	590
Females, white	897
Children, males, white	198
Children, females, white	254
Males, colored	1,939
Females, colored	828
Children, males, colored	1,946
Children, females, colored	411
	451
	3,636

Total	5,575
The following patients are included in the above statement:	
Number treated as in-patients	13
Total number of days remaining in house	75
Americans	4,943
Foreigners	632
Total	5,575

Number of obstetrical cases	1
Number of prescriptions compounded	18,952

SURGICAL OPERATIONS.

Operations.	Number treated.	Operations.	Number treated.
Abscess, incision	5	Entropion, removed hair bulbs	1
cervical, incision	4	Epiphora, canal slit up	1
eyelid, incision	1	Fistula in ano, incision	1
scalp, incision	1	Foreign body in bladder, removal	1
scrofulous, incision	2	Foreign body in cornea, removal	3
submental, incision	2	Fracture of clavicle, adjust	1
psoas, incision	1	Hæmatocele, aspiration	1
Aderitis scrof. (incision, tube inserted and carbolic dressing)	1	Hæmorrhoids, operation for rad. cure ..	1
Amputation of finger	1	Hordeolum, incision	1
Ankyloglossia, incision	6	Hydrocele, evacuated	4
Ankylosis, elbow joint (adhesions broken)	1	Hydrocele, operation for radical cure ..	2
Anthrax, incision	2	Hypertrophied nails, removal	1
Arthritis, elbow joint (tube inserted and carbolic dressing)	1	Inflammation of joint, incision	1
Ascites (tapped)	4	Iridectomy	4
Atresia vaginæ (adhesions broken)	1	Jury-mast applied	1
Bubo, incision	6	Keloid, excision	2
Calculus vesical, dilation of urethra	1	Leucoma cornea, tattooed	4
Caruncle urethræ, excision	2	Lipoma, excision	1
Cataract, extraction	3	Nævus, removed	1
Cataract, secondary, capsular, division by needle	3	Onychia, opened	1
Cellulitis, orbital, incision	1	Polypoid growth of eyelid, excision	1
Chalazion, excision	12	Polypus uteri, removed	1
Chalazion, opened	1	Prepuce, adherent, adhesions broken ..	9
Cicatrix from burn, cicatrix dissected out	1	Prolapsus iridis, excision of iris	1
Circumcision	15	Pterygium, excision	1
Contused thumb, nail removed	1	Puncta, closure of, slit up	1
Cornea, parecentesis	1	Sinus corona penis, incision	1
Curvature of spine, angular, jacket applied	7	Staphyloma cornea, excision	1
Curvature of spine, lateral, jacket applied	4	Strabismus converg., strabotomy	7
Cyst of eyelid, evacuated	1	Stricture nasal duct, canal slit up	3
Dacryocystitis, division of canaliculi	5	Stricture urethra, dilatation	1
Dislocation of humerus, reduction	1	Talipes, equino varus, tenotomy	1
Ectropion, plastic operation	1	Tumor, fibroid, excision	3
Enucleation of eye	1	Tumor, sebaceous, excision	1
		Ulcer of cornea, serpiginous, Samisch's operation	1
		Whitlow, incision	4
		Wound, gunshot, shot removed	1
		Total	171

Report of the treasurer.

RECEIPTS.

Balance on hand April 1, 1880		\$331 90
Received from District Commissioners	\$2, 050 00	
Interest on United States bond	20 00	
Subscriptions	223 00	
		2, 293 00
Total		2, 624 90

EXPENSES.

Rent	\$300 00	
Druggist's salary	330 00	
Janitrix	115 00	
Drugs	1, 238 06	
Stationery	11 00	
Fuel	55 43	
Printing	53 85	
Repairs	42 59	
Instruments, &c	42 79	
Furniture	20 49	
Provisions, &c	28 91	
Labor	10 00	
Miscellaneous	1 60	
		2, 249 72
Cash balance on hand April 1, 1881		375 18

D. W. MIDDLETON,
Treasurer.

U.—ESTIMATES FOR THE POLICE COURT.

WASHINGTON, D. C., *September 28, 1881.*

GENTLEMEN: I have the honor herewith to submit the following estimate of expenses for the police court for the year ending June 30, 1883:

For salaries of—

Judge	\$3, 000	
Clerks	2, 000	
Deputy clerk	1, 000	
2 bailiffs, at \$3 per day	1, 878	
Messenger	900	
Janitor	540	
Van driver	540	
		\$9, 858 00
For pay of justice during absence or sickness of judge		600 00
For other expenses, including fuel, gas, stationery, blanks, books, repairs, furniture, ice, witness fees, and miscellaneous items		2, 500 00
For United States marshal's fees		1, 400 00
		14, 358 00

Very respectfully, your obedient servant,

WM. B. SNELL,
Judge Police Court District of Columbia.
Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

V.—REPORT OF COMMITTEE ON THE POOR FUND.

WASHINGTON, D. C., *June 25, 1881.*

GENTLEMEN: The Commissioners of the District of Columbia, to whom was entrusted the disbursement of the funds collected for the relief of the poor, under a resolution passed at the Willard Hall meeting in January last, have notified the undersigned that their accounts of receipts and expenditures are ready for examination, and have requested the appointment of a committee of citizens for that purpose.

You have been selected as gentlemen who it is believed will be willing to give a part of your time to the public to perform this service.

We hope you will be able to make this requisite examination, and report the result in such form as may be published in the newspapers.

We are, gentlemen, with much respect, your obedient servants,

A. B. HAGNER,
Chairman.

JNO. A. BAKER,
Secretary.

MESSRS. REGINALD FENDALL,
F. B. MCGUIRE, and
LEWIS J. DAVIS.

Hon. A. B. HAGNER, *Chairman,*
JOHN A. BAKER, Esq., *Secretary:*

GENTLEMEN: The committee appointed by you to audit the accounts of the Commissioners of the District of Columbia, in respect to the collection and distribution of the contributions for the relief of the poor and suffering of the District of Columbia of last winter, respectfully report that they have examined the statement and vouchers submitted by the Commissioners through their agent, the Chief of Police, and find from the same that the sum of \$11,751.33 was received, and that the sum of \$11,751.83, or fifty cents in excess of receipts, was expended in a most efficient and satisfactory manner. They also find that in addition to the cash receipts a considerable quantity of supplies in the form of food, fuel, clothing, and bedding was contributed and distributed.

As this fund and the other contributions were the spontaneous expression of sympathy with, and desire to relieve, the sufferings of the poor unprepared for the trials of a severe winter, and as good was accomplished to an extent disproportionate to the facilities afforded those managing the contributions, upwards of 6,000 families having been relieved, we deem it a matter of some interest to refer to the admirable method adopted by the Commissioners in distributing relief over a large field, and to the relative demands made by the necessitous in the future.

Major Brock, the Chief of Police, directed his men to examine into the wants of the poor in their respective precincts, and upon reporting the necessities of the individual an order, signed by the lieutenant of the precinct, was given for whatever was most needed in the special case, which order was supplied by the merchant to whom it was presented, and returned by him to the lieutenant who issued it; he tested it, and it was then paid by the Chief of Police.

By this method every dollar was dedicated to its mission and the strictest integrity insured in carrying out the trust imposed upon the Commissioners.

The relative necessities of the poor last winter are shown by the following tabular statement of the expenditure of the fund, and may furnish a future guide for the charitable who may make contributions of articles instead of money.

The amount of cash contributed was \$11,751 33
Which was distributed thus:

Groceries	\$6,087 06	
Fuel	5,266 46	
Boots and shoes	142 60	
Cash, in small amounts	128 97	
Cartage of coke	80 00	
Dry-goods and bedding	46 74	
	11,751 83	
Overpaid		50
		11,751 83

In conclusion, we take pleasure in congratulating the charitable upon the suffering they relieved by their generous and spontaneous response, and we beg leave to commend Major W. G. Brock, the Chief of Police, for the admirable method he adopted, and which, with the aid of his officers and men, he so efficiently executed.

Very respectfully, your obedient servants,

REGINALD FENDALL,
F. B. McGUIRE,
LEWIS J. DAVIS,
Committee.

W.—REPORT OF THE GOVERNMENT HOSPITAL FOR THE INSANE.

GOVERNMENT HOSPITAL FOR THE INSANE,
Washington, D. C., October 1, 1881.

GENTLEMEN: In accordance with the act of Congress approved March 3, 1881, entitled "An act making appropriations to provide for the expenses of the government of the District of Columbia for the fiscal year ending June 30, 1882, and for other purposes," I have the honor to transmit herewith a copy of the Twenty-sixth Annual Report of the Board of Visitors of this institution; addressed to the honorable Secretary of the Interior, accompanied by a detailed statement of the receipts and expenditures of the Government Hospital for the Insane for the fiscal year ending June 30, 1881.

I am, gentlemen, very respectfully, your obedient servant,
W. W. GODDING,
Superintendent.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

NON-RESIDENT OFFICERS OF THE HOSPITAL, JUNE 30, 1881.

VISITORS.

JOSEPH K. BARNES, M. D., U. S. A.,
President of the Board.
JOSEPH M. TONER, M. D.
JAMES C. WELLING, LL. D.
WILLIAM GRIER, M. D., U. S. N.

CHARLES WORTHINGTON, ESQ.
MRS. A. M. GANGEWER.
" AMELIA J. ROWLAND.
ADM. JOHN J. ALMY, U. S. N.
REV. C. HERBERT RICHARDSON.

EXECUTIVE COMMITTEE OF THE BOARD.

MESSRS. BARNES, TONER, AND GRIER.

CHAPLAINS.

REV. JOHN CHESTER, D. D.
 " A. FLORIDUS STEELE.
 " J. G. BUTLER, D. D.

REV. J. W. PARKER, D. D.
 " S. F. RYAN.
 " J. S. DEALE, D. D.

RESIDENT MEDICAL OFFICERS OF THE HOSPITAL.

W. W. GODDING, M. D., *Superintendent and ex-officio Secretary of the Board of Visitors.*
 SAMUEL B. LYON, M. D., *Chief Clerk and Visiting Physician to the Relief.*
 A. H. WITMER, M. D., *First Assistant Physician.*
 MAURICE J. STACK, M. D., *Second Assistant Physician.*
 GEORGE W. FOSTER, M. D., *Third Assistant Physician.*
 A. C. PATTERSON, M. D., *Night Medical Inspector.*

REPORT OF THE BOARD OF VISITORS.

GOVERNMENT HOSPITAL FOR THE INSANE,
Near Washington, D. C., October 1, 1881.

SIR: In accordance with the law establishing this hospital, the Board of Visitors have the honor to submit their twenty-sixth annual report.

The following tables give a synopsis of the movements of the population and operations of the hospital during the year ending June 30, 1881:

Summary.

	Males.	Females.	Totals.
Remaining June 30, 1880	691	206	897
Admitted during the year ending June 30, 1881	161	62	223
Whole number under treatment	852	268	1,120
Recovered	62	10	72
Improved	27	9	36
Unimproved		6	6
Died	63	18	81
Total discharged and died	152	43	195
Remaining June 30, 1881	700	225	925

Admissions and discharges.

	Males.		Females.		Totals.
REMAINING JUNE 30, 1880.					
Army	White ... 453	464	3	3	467
	Colored.. 11				
Navy	White ... 42	43			43
	Colored.. 1				
Marine Hospital service	White ... 7	8			8
	Colored.. 1				
Civil life	White ... 132	176	146	203	379
	Colored.. 44		57		
		691		206	897
				5	

168 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA

Admissions and discharges—Continued.

		Males.		Females.		Totals.	
ADMITTED DURING THE YEAR 1880-'81.							
Army.....	{ White ... Colored..	58 2	60	1	1	61	
Navy.....	{ White ... Colored..	10 1	11			11	
Marine Hospital Service.....	{ White ... Colored..	4 3	7			7	
Civil life.....	{ White ... Colored..	63 20	83	43 18	61	144	
			161		62	223	
UNDER TREATMENT DURING THE YEAR.							
Army.....	{ White ... Colored..	511 13	524	4	4	528	
Navy.....	{ White ... Colored..	52 2	54			54	
Marine Hospital Service.....	{ White ... Colored..	11 4	15			15	
Civil life.....	{ White ... Colored..	195 64	259	189 75	264	523	
			852		268	1,120	
DISCHARGED DURING THE YEAR—Recovered.							
Army.....	{ White ... Colored..	25 2	27	1	1	28	
Navy.....	{ White ... Colored..	7	7			7	
Marine Hospital Service.....	{ White ... Colored..	1	1			1	
Civil life.....	{ White ... Colored..	17 10	27	5 4	9	36	
			62		10	72	
DISCHARGED DURING THE YEAR—Improved.							
Army.....	{ White ... Colored..	7 1	8			8	
Navy.....	{ White ... Colored..		2			2	
Marine Hospital Service.....	{ White ... Colored..	2	2			2	
Civil life.....	{ White ... Colored..	16 1	17	6 3	9	26	
			27		9	36	
DISCHARGED DURING THE YEAR—Unimproved.							
Army.....	{ White ... Colored..						
Navy.....	{ White ... Colored..						
Marine Hospital Service.....	{ White ... Colored..						
Civil life.....	{ White ... Colored..			5 1	6	6	
DECEASED DURING THE YEAR.							
Army.....	{ White ... Colored..	44	44			44	
Navy.....	{ White ... Colored..	3	3			3	
Marine Hospital Service.....	{ White ... Colored..	1 1	2			2	
Civil life.....	{ White ... Colored..	9 5	14	12 6	18	32	
			63		18	81	

Admissions and discharges—Continued.

			Males.		Females.		Totals.	
REMAINING JUNE 30, 1881.								
Army	{	White ...	435	445	3	3	448	
		Colored..	10					
Navy	{	White ...	42	44			44	
		Colored..	2					
Marine Hospital Service.....	{	White ...	8	10			10	
		Colored..	2					
Civil life	{	White . .	153	201	161	222	423	925
		Colored..	48						61
				700		225		

NOTE 1.—Of the 423 from civil life remaining at the end of the year 383 were indigent residents of the District of Columbia, 21 were indigent non-residents, and 2 were non-resident criminals.
NOTE 2.—There were 10 less persons than cases under treatment in the course of the year by reason of 8 readmissions and two transfers from "independent" to "indigent."

Monthly changes of population.

Date.	Admitted.			Discharged.						
	Male.	Female.	Total.	Male.	Female.	Total.	Died.			Total disch'd, including deaths.
							Male.	Female.	Total.	
July, 1880	15	4	19	13	3	16	4	1	5	21
August, 1880	13	5	18	5	5	10	3	0	3	13
September, 1880.....	9	6	15	9	2	11	6	3	9	20
October, 1880.....	12	6	18	15	1	16	6	4	10	26
November, 1880	11	3	14	6	1	7	6	0	6	13
December, 1880	11	4	15	2	2	4	4	2	6	10
January, 1881	10	5	15	6	2	8	7	1	8	16
February, 1881	17	6	23	1	1	2	4	2	6	8
March, 1881	11	7	18	5	0	5	4	1	5	10
April, 1881	12	2	14	13	0	13	10	2	12	25
May, 1881	18	5	23	7	3	10	7	2	9	19
June, 1881.....	22	9	31	7	5	12	2	0	2	14
	161	62	223	89	25	114	63	18	81	195

Physical condition of those who died.

Apoplexy.....	1	Old age.....	1
Apoplexy (epileptic).....	10	Organic disease of brain	18
Asphyxia (accidental).....	1	Organic disease of brain and spinal cord.....	3
Bright's disease.....	2	Osteo-sarcoma (of thigh).....	1
Burn (self-inflicted).....	1	Paresis	11
Cancer (of pancreas).....	1	Peritonitis, acute.....	1
Cardiac disease.....	4	Pernicious fever	1
Cirrhosis of liver, with cholesteræmia.	1	Phthisis pulmonalis.....	12
Diarrhœa	5	Pulmonary oedema.....	1
Erysipelas.....	1	Typo-malarial fever.....	1
Exhaustion of acute mania.....	1		
Exhaustion of chronic mania.....	1		
Fracture of neck of femur.....	1	Total.....	81
Intussusception (intestinal).....	1		

Duration of the mental disease of those who died.

Less than three months.....	4	Ten years.....	2
Three to six months.....	3	Eleven years.....	1
Six months to one year.....	1	Twelve years.....	4
One year	11	Thirteen years.....	4

Duration of the mental disease of those who died—Continued.

Two years	15	Fourteen years	2
Three years	8	Fifteen years	3
Four years	1	Sixteen years	1
Five years	4	Seventeen years	3
Six years	6	Twenty years	1
Seven years	3		
Eight years	2	Total	21
Nine years	2		

Duration of disease on admission.

		Males.		Females.		Totals.	
LESS THAN SIX MONTHS.							
Army.....	{ White ...	23	25	1	1	26	
	{ Colored..	2					
Navy	{ White ...	7	7			7	
	{ Colored..						
Marine Hospital Service.....	{ White ...	1	3			3	
	{ Colored..	2					
Civil life	{ White ...	29	42	11	17	59	95
	{ Colored..	13		6			
LESS THAN ONE YEAR.							
Army.....	{ White ...	11	11		18	11	
	{ Colored..						
Navy	{ White ...	1	1			1	
	{ Colored..						
Marine Hospital Service	{ White ...	2	2			2	
	{ Colored..						
Civil life	{ White ...	2	2	4	7	9	23
	{ Colored..			3			
ONE TO TWO YEARS.							
Army.....	{ White ...	17	17		7	17	
	{ Colored..						
Navy	{ White ...	3	3		11	3	
	{ Colored..						
Marine Hospital Service.....	{ White ...	1	2		11	2	
	{ Colored..	1					
Civil life.....	{ White ...	17	21	8	11	32	54
	{ Colored..	4		3			
OVER TWO YEARS.							
Army.....	{ White ...	1	1		8	1	
	{ Colored..						
Navy	{ White ...				11	1	
	{ Colored..						
Marine Hospital Service	{ White ...				8	13	14
	{ Colored..						
Civil life	{ White ...	5	5	5	8	13	
	{ Colored..			3			
OVER THREE YEARS.							
Army.....	{ White ...	1	1		8	1	
	{ Colored..						
Navy	{ White ...				8	1	
	{ Colored..						
Marine Hospital Service.....	{ White ...				8	4	5
	{ Colored..						
Civil life	{ White ...	3	4		8	4	5
	{ Colored..	1					

Duration of disease on admission—Continued.

		Males.		Females.		Total.	
OVER FOUR YEARS.							
Army.....	{ White ... Colored..						
Navy	{ White ... Colored..						
Marine Hospital Service	{ White ... Colored..						
Civil life	{ White ... Colored..			6 2	8	8	8
FIVE TO TEN YEARS.							
Army.....	{ White ... Colored..	2				2	
Navy	{ White ... Colored..		2				2
Marine Hospital Service	{ White ... Colored..						
Civil life	{ White ... Colored..	4 2		7 1	8	14	16
TEN TO TWENTY YEARS.							
Army.....	{ White ... Colored..	3				3	
Navy	{ White ... Colored..		3				3
Marine Hospital Service	{ White ... Colored..						
Civil life	{ White ... Colored..			2		2	5
OVER TWENTY YEARS.							
Army.....	{ White ... Colored..						
Navy	{ White ... Colored..						
Marine Hospital Service	{ White ... Colored..						
Civil life	{ White ... Colored..	2 1	3				3
							223

Table showing the nativity, as far as could be ascertained, of the 5,163 cases treated.

NATIVE BORN.		FOREIGN BORN.	
District of Columbia.....	560	Ireland.....	1,071
New York	385	Germany	715
Maryland	364	England	127
Virginia	367	France	51
Pennsylvania.....	274	Canada	44
Ohio	137	Scotland	38
Massachusetts	121	Switzerland	15
Maine	58	Italy	22
Illinois	49	Denmark.....	14
Connecticut	44	Norway	10
New Hampshire	49	Sweden	12

Table showing the nativity, &c.—Continued.

NATIVE BORN.		FOREIGN BORN.	
Indiana	40	Poland	11
Kentucky	37	Russia	6
Michigan	30	Austria	5
New Jersey	36	Nova Scotia	9
Tennessee	25	Spain	4
Wisconsin	20	Holland	6
Vermont	24	Wales	4
Missouri	21	Portugal	3
Rhode Island	15	Hungary	4
Delaware	14	Mexico	3
North Carolina	18	Saxony	4
Alabama	7	Malta	3
South Carolina	9	Cyprus	1
Iowa	4	Belgium	3
Georgia	9	Buenos Ayres	1
Mississippi	9	Costa Rica	1
Louisiana	5	Bavaria	2
West Virginia	6	Sicily	1
Kansas	2	British Columbia	1
Florida	2	British Possessions	1
Texas	4	East Indies (British)	2
California	3	West Indies (British)	4
Choctaw Nation	2	West Indies, Hayti	1
Colorado	1	New Brunswick	1
Arkansas	1	Cuba	2
Total	2,752	Sandwich Islands	1
		China	1
		Coast of Africa	2
		Total	2,206
Native born			2,752
Foreign born			2,206
Unknown			205
Total			5,163

FORM OF DISEASE IN THOSE ADMITTED.

	Total last year.	Admitted during year.	Total.		Total last year.	Admitted during year.	Total.
Mania, acute	1,828	50	1,878	Kleptomania	3		3
Mania, chronic	759	57	816	Nymphomania	3		3
Melancholia	578	60	638	Imbecility	39	4	43
Dementia	1,263	30	1,293	Opium eaters	11		11
Dementia, senile	54	2	56	Not insane	4		4
Paresis	55	10	65	Total	4,940	223	5,163
Dipsomania	341	10	351				
Typhomania (Bell's disease)	2		2				

COMPLICATIONS OF THOSE ADMITTED.

Epilepsy	268	17	285	Periodicity	186	9	195
Apoplexy	2		2	Puerperal state	39	1	40
Paralysis	108	14	122	Catalepsy	7	1	8
Suicidal disposition	126	13	139	Nostalgia	31	1	32
Homicidal disposition	45	5	50	Post febrile condition	41	3	44

As far as could be ascertained, the volunteers of the Army and Navy under treatment during the year ending June 30, 1881, entered the service from the following States :

	Army.	Navy.	Total.		Army.	Navy.	Total.
New York.....	48	.....	48	Maine.....	7	.....	7
Ohio.....	28	.....	28	Nebraska.....	2	.....	2
Pennsylvania.....	20	.....	20	Delaware.....	1	.....	1
Indiana.....	22	.....	22	Minnesota.....	1	.....	1
Michigan.....	11	.....	11	Iowa.....	3	.....	3
Illinois.....	16	.....	16	North Carolina.....	1	.....	1
Wisconsin.....	12	.....	12	California.....	1	.....	1
Missouri.....	4	.....	4	New Mexico.....	1	.....	1
Connecticut.....	8	.....	8	Kentucky.....	1	.....	1
New Hampshire.....	5	.....	5	West Virginia.....	2	.....	2
Vermont.....	1	.....	1	Unknown.....	5	1	6
Maryland.....	7	.....	7				
Massachusetts.....	18	.....	18	Total.....	230	1	231
New Jersey.....	5	.....	5				

Tabular statement of the time of life at which the 5,163 persons treated since the opening of the Institution became insane.

Under 10 years.....	83
Between 10 and 15 years.....	55
15 and 20 years.....	323
20 and 25 years.....	943
25 and 30 years.....	1,038
30 and 35 years.....	909
35 and 40 years.....	600
40 and 45 years.....	397
45 and 50 years.....	273
50 and 60 years.....	254
60 and 70 years.....	143
70 and 80 years.....	50
80 and 90 years.....	7
Unknown.....	84
Not insane.....	4
Total.....	5,163

Private patients.

		Total.
There were at the beginning of the year.....	6 males, 9 females..	15
Received during the year.....	7 males, 4 females..	11
Whole number under treatment.....	13 males, 13 females..	26
Discharged during the year.....	4 males, 5 females..	9
Remaining at the end of the year.....	9 males, 8 females..	17

Table showing the history of the annual admissions since the opening of the hospital, with the discharges and deaths, and the number of each year remaining June 30, 1881.

Years.	Admitted.			Of each year's discharged and died in 1881.										Total discharged and died of each year's admission.										Remaining of each year's admissions, June 30, 1881.									
	New cases.			Recovered.			Improved.			Unimproved.			Died.			Recovered.			Improved.			Unimproved.					Died.						
	Relapsed cases.			Total.			Female.			Male.			Total.			Female.			Male.			Total.			Female.			Male.			Total.		
	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.	Female.	Male.	Total.			
1855.....	37	26	63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1855-'56.....	11	36	47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1856-'57.....	25	24	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1857-'58.....	11	27	43	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1858-'59.....	15	45	65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1859-'60.....	19	67	92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1860-'61.....	30	60	95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1861-'62.....	11	172	186	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1862-'63.....	18	323	355	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1863-'64.....	23	462	509	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1864-'65.....	34	452	514	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1865-'66.....	24	182	222	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1866-'67.....	18	71	109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1867-'68.....	28	105	153	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1868-'69.....	32	114	168	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1869-'70.....	26	130	182	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1870-'71.....	28	147	195	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1871-'72.....	38	120	186	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1872-'73.....	37	130	204	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1873-'74.....	28	165	230	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1874-'75.....	37	155	230	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1875-'76.....	37	136	213	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1876-'77.....	37	119	198	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1877-'78.....	31	109	182	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1878-'79.....	42	138	222	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1879-'80.....	33	159	225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
1880-'81.....	51	135	223	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....			
Totals.....	761	3,809	5,163	422	171	5,163	62	10	72	27	9	36	6	63	18	81	1,906	261	2,167	561	165	726	121	49	170	943	232	1,175	700	225	925		

The number of admissions, which was 223, is almost identical with that of the two previous years, but the number remaining at the close of the year, 925, as well as the number under treatment during the year, 1,120, exceeds that of any previous report. As the hospital becomes a permanent home for the most of those who do not recover, it is to be expected that the number of inmates will slowly increase. The daily average number under treatment was 896. Rather more than one-third of the discharges, including deaths, have been recoveries, and the deaths, 81 in number, have been a little more than 7 per cent. of the whole number treated.

Throughout the year the hospital has enjoyed an immunity from epidemic disease or extensive disaster, which while it is not different from its usual record is none the less a subject for congratulation and thankfulness. In a community of nearly 1,000 insane persons the possibilities of accident or outbreak are many and are a source of daily anxiety to the officers in charge; indeed, when we take into account the crowded condition of the house, it is a matter of surprise that so little really serious trouble has hitherto occurred in our hospital.

The recently-erected buildings for special classes have afforded great relief to our overcrowded wards, and another year's test of their practical working has only confirmed the opinion that in some such provision for the quiet classes will be found a satisfactory solution to the great social problem of the care of the chronic insane. Startling events of almost daily occurrence show that it is unsafe to have them at large in the community; humanity protests that they shall not be left neglected in almshouses; what is wanted for them is care in comfortable but inexpensive homes connected with our present curative establishments for the insane.

So many requests have been received for information about the new buildings from those interested in the erection of similar structures elsewhere, that we have inserted in this report the ground plan and elevation of the relief building, so-called, which we think will convey the information desired. This is a building, with outer and interior walls of brick, constructed and furnished at a time when both labor and material were exceptionally low, and the whole expenditure did not exceed \$250 per patient for the number now occupying it. Allowing that this would be an unsafe figure on which to base an estimate at present prices, as it certainly would, still it is demonstrable that accommodations which are all that are needed for the comfortable care of the mild cases of insanity can be provided at an expense for furnished buildings of less than \$500 per patient.

When it shall become the settled policy of the States to care for all their insane, taking them out of the town and county almshouses, placing them in homes connected with the existing hospitals, and giving them workshops and tillage lands, it will be a greater advance in their treatment than any that has been made since the earnest philanthropy of Miss Dix first called attention to the condition of this unfortunate class and created so many of our present hospitals; which was a noble charity and meant for all, but practically it has been found that the liberal and expensive provision for the cure of insanity, admirable and necessary as it is for a part, has proved so great a tax that no State has thus far been willing to provide such elaborate asylums for the whole.

The following is the table of farm and garden products, with their estimated value:

Asparagus, 1,990 bunches, at 6 cents	\$119 40
Apples, 76 bushels, at 75 cents.....	57 00
Apricots, $\frac{1}{2}$ bushel, at \$5	2 50

Beans (lima), 219 bushels, at \$1.....	\$219 00
Beans (string), 80½ bushels, at 75 cents.....	60 37
Beef (fresh), 3,336 pounds, at 7½ cents.....	250 20
Beets, 683 bushels, at 50 cents.....	341 50
Beets, 1,050 bunches, at 4 cents.....	42 00
Beets (greens), 71 barrels, at \$1.....	71 00
Blackberries, 275 quarts, at 10 cents.....	27 50
Cabbages, 12,681 heads, at 8 cents.....	1,014 40
Cabbages, 74 barrels, at \$1.....	74 00
Carrots, 2,328 bunches, at 3 cents.....	69 84
Celery, 7,991 heads, at 4 cents.....	319 64
Chickens, 21½ dozens, at \$4.....	87 33
Cucumbers, 2,654, at 1 cent.....	26 54
Cherries, 54 bushels, at \$3.....	162 00
Currants, 170 quarts, at 15 cents.....	25 50
Corn (green), 970½ dozen ears, at 12 cents.....	117 47
Cantaloupes, 1,228, at 5 cents.....	61 40
Ducks, 10½ dozens, at \$5.....	50 42
Eggs, 2,957½ dozens, at 16 cents.....	473 25
Egg plants, 2,973, at 3 cents.....	89 19
Figs, 109 quarts, at 20 cents.....	21 80
Geese, 26, at \$1.....	26 00
Gooseberries, 470 quarts, at 15 cents.....	70 50
Grapes, 16,800 pounds, at 5 cents.....	840 00
Honey, 15 pounds, at 12 cents.....	1 80
Kale, 190 barrels, at \$1.50.....	285 00
Lettuce, 8,632 heads, at 2 cents.....	172 64
Leeks, 29,193 heads, at 1 cent.....	291 93
Milk, 43,753 gallons, at 25 cents.....	10,938 25
Onions, 53 bushels, at \$1.....	53 00
Onions, 2,474 bunches, at 5 cents.....	123 70
Onions (sets), 4 bushels, at \$8.....	32 00
Oyster plants, 1,785 bunches, at 6 cents.....	107 10
Parsley, 4,991 bunches, at 3 cents.....	149 73
Parsnips, 305 bushels, at \$1.....	305 00
Peppers, 2 bushels, at \$1.....	2 00
Pease, 189 bushels, at \$1.....	189 00
Pears, 20½ bushels, at \$3.....	60 75
Pork, 22,376 pounds, at 7 cents.....	1,566 32
Pigeons, 65, at 25 cents.....	16 25
Potatoes (Irish), 165½ bushels, at 75 cents.....	124 12
Potatoes (sweet), 672 bushels, at 50 cents.....	336 00
Pumpkins, 50 cart-loads, at \$2.....	100 00
Peaches, 62½ bushels, at \$1.25.....	77 81
Quinces, 64 bushels, at \$3.....	192 00
Raddishes, 1,023 bunches, at 3 cents.....	30 69
Radish (horse), 522 pounds, at 8 cents.....	41 76
Rhubarb, 653 pounds, at 3 cents.....	19 59
Raspberries, 144 quarts, at 20 cents.....	28 80
Strawberries, 3,880 quarts, at 12½ cents.....	485 00
Spinach, 44 barrels, at \$1.....	44 00
Squash (summer), 3,784, at 2 cents.....	75 68
Squash (turban), 389 pounds, at 3 cents.....	11 67
Squash (turban), 41 barrels, at \$3.50.....	143 50
Turkeys, 2, at \$1.50.....	3 00
Turnips, 223 bushels, at 50 cents.....	111 50
Tomatoes, 1,051½ bushels, at 50 cents.....	525 87
Veal, 286 pounds, at 8 cents.....	22 88
Watermelons, 22, at 6 cents.....	1 32
Total.....	21,389 49

The following are the products that were consumed on the farm, and consequently are not a part of the profits:

Corn (shelled), 400 bushels, at 60 cents.....	\$240 00
Corn (fodder, green), 12 acres, at \$35.....	420 00
Corn (fodder, dry), 25 tons, at \$15.....	375 00
Grass pasturage.....	800 00
Grass (green), 8 acres, at \$30.....	240 00
Hay, 250 tons, at \$20.....	5,000 00

178 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Mangel-wurzel, 112 tons, at \$15.....	\$1,680 00
Rye (green), 5 acres, at \$30.....	150 00
Rutabaga, 173 bushels, at 45 cents.....	77 85
Straw (rye), 15 tons, at \$15.....	225 00
Total.....	9,207 85

The farm is now moderately remunerative and affords employment to many of our inmates. On the whole its production is satisfactory. The forage crops are large and are consumed on the place. The fruit crop is increasing and adds a pleasant variety to the table in its season. The vegetable garden can usually be relied on throughout most of the year for the same purpose. The amount of milk produced last year was 43,753 gallons, giving a daily consumption of about 120 gallons. With proper shelter for the herd it is probable that the production can be carried up to 150 gallons daily, which will afford a liberal supply of this best nutriment for the aged and infirm who constitute so large a proportion of the insane. What we consider the advantages of the farm, in addition to its products, are, that it offers varied occupation not otherwise so satisfactorily afforded, gives space for walks and recreation to a large proportion of the inmates, and is the most salubrious of all possible surroundings for so extensive a pile of buildings. In the torrid heat of the summers of this latitude it is restful and invigorating to come from the stifling pavements of the city upon our green lawns and feel the wind blowing from the river. The pleasing variety of country fields and woods is a relief to the necessarily monotonous life of the insane, and, while such ample grounds show a most liberal provision of the government for her insane, they are none too large, nor will the variety afforded by a few hundred acres seem too great to those who must perforce find in them the limit of their world.

The estimates of appropriations for the fiscal year ending June 30, 1883, are as follows:

1. For the support, clothing, and treatment in the Government Hospital for the Insane, of the insane of the Army, Navy, Marine Corps, and the Revenue Cutter Service, and of all persons who have become insane since their entry into the military or naval service of the United States, and who are indigent, and of the indigent insane of the District of Columbia, \$202,500.

It is estimated that during the fiscal year ending June 30, 1883, the hospital will be called upon to provide for an average number of not less than 900 of the indigent insane belonging to the above classes, and that the cost per patient will be \$225; this includes all the expenditures of the hospital except those for special repairs and improvements. As the number of patients under treatment at the close of the last fiscal year was 925, and is still increasing, it is possible that the above will prove an underestimate in numbers and consequently in amount.

It is asked that the provision which has been made for some years be continued; that not exceeding \$1,000 of the appropriation for support may be expended to defray the expenses of the removal of patients to their friends; also, that the permission which is now granted to the Volunteer Soldiers' Homes be extended to the Government Hospital for the Insane, viz, to dispose of hospital products and articles manufactured by the inmates for the benefit of the hospital.

2. For general repairs and improvements, \$10,000.

This annual expenditure is necessary to prevent deterioration in the hospital, and is true economy in the proper care of the buildings and grounds; it is the amount usually estimated, and is the same as the appropriation for the current year.

3. For special improvements, viz, a supply of pure water, increased accommodations for hay, stock, and farm implements; a detached kitchen and cooking apparatus, with scullery; fire-walls between sections; a mortuary building; in all, \$38,500.

No special improvement has been asked in this estimate that has not been considered essential to the continued welfare of the hospital, and certainly there is none more so than a full supply of pure water for all purposes of the inmates. It is a cruel wrong to longer delay giving the insane the use of the water from the Upper Potomac, which the United States Government has so munificently supplied to the city of Washington and the departments here. It is not a difficult work. Our present arrangements for pumping and water service are ample; it only needs suitable depositing reservoirs with a 6-inch iron pipe laid for about three-fourths of a mile across the bed of the river, most of the distance in shallow water, and it is believed that the sum asked will be sufficient to complete the work. A little excellent water for drinking is obtained from springs near the hospital, but this is a scanty supply at best and liable at any time to be greatly diminished, if not entirely cut off, by the summer's drought. The water for all other uses is pumped from the Anacostia at a point where it ebbs and flows by the hospital grounds. This stream takes the wash of East and South Washington; its flats have long been a favorite dumping-ground for the dredgings from the channel of the Potomac, and we believe it is endangering the health of our inmates to continue its use; every severe storm leaves it for days unfit for anything but a fertilizer. Surely the poisonous mud of this sluggish creek, with its annual increment of defilement, is unfit to be the water-supply for a great hospital of dependent sufferers who are allowed no option in the selection of a home. That there may be no delay in the completion of this very necessary work, it is asked that \$25,000 of the appropriation for special improvements be made immediately available.

Another pressing want is room for the storage of hay and the proper care of the stock. More than 100 tons of hay is now standing in stacks exposed to the weather, simply because we have no room for it in the barn. A piggery was built last year, and with that exception no farm building has been added since 1874; meantime, the milk produced on the farm, every quart of which is needed for the proper sustenance of our great household, has increased from 15,925 gallons in 1875, to 43,753 gallons in 1881, the herd of milch cows being nearly doubled, with no additional provision for their shelter other than a few sheds, which afford but very indifferent winter protection. The thrifty farmer provides warm quarters for his stock and thereby reduces his expenditure for their food. It is economy for the hospital, whose dairy farm supplies so important an element of the daily food of its inmates, to take the best possible care of its neat cattle, and \$5,000 is asked for these very necessary farm buildings.

The hospital has quite outgrown its old culinary arrangements, and some new provision will have to be made. The present kitchen is in the basement of the center building, directly under the executive offices, which enjoy a more than tropic heat in summer in consequence; the odor of cooking is less localized and extends through the whole building. In the best modern hospitals the kitchen is placed either in the highest story of the building or in a detached structure, thus avoiding all discomfort to the wards from heat and odor. The arrangements of this hospital do not admit of locating the kitchen in the top of the house, and indeed, unless the ground rent is a serious item as in cities, it would seem to be

better in all cases, in view of the greater security from fire, to place it in a distinct building. Such detached building should be made fire-proof, of one story, with skylights and ventilators directly over the cooking apparatus, making the whole room light and airy. The scullery should be an adjoining room, having all convenient arrangements for the preparation of vegetables and washing of dishes. The kitchen itself should be specially fitted with all the necessary apparatus for the cooking of food on a large scale, as well as such approved appliances as may be needed for making special dishes for the sick. Much of the apparatus in our present kitchen is comparatively new and excellent, and it is thought that \$4,000 will enable us to erect the building and purchase all the additional apparatus which the increased accommodations have rendered necessary.

Several destructive fires have occurred in hospitals for the insane during the past year in different parts of the country; this has led us to make a careful re-examination of our own hospital for all sources of danger in this direction. In addition to the ample provisions in other respects, which have already been made, we recommend the construction of fire-proof walls of brick, with iron doors, between the different sections of the hospital building, so that should a fire unfortunately occur it could be confined to the section in which it originated. It will not be a difficult matter to arrange for such walls; some slight changes in a few rooms will be necessary, but these changes will be improvements rather than otherwise, and for the sum asked, \$3,500, it is thought that the whole work can be accomplished. Within walls where every year more than a thousand insane persons are provided for, no safeguard against so terrible a calamity as fire should be omitted.

So far as it is possible all the surroundings of the insane should be pleasant, and all depressing scenes and associations should be avoided. The want of a suitable mortuary building has long been felt, and \$1,000 is asked for this purpose. The fitness of things seems to demand a proper provision for the dead outside the wards of the living; no well-appointed hospital is without this.

4. For the erection of a distinct hospital building for the female insane, \$250,000; for expenditure in the fiscal year ending June 30, 1883, \$125,000.

The time has come when some new provision will have to be made for the female insane in this hospital. Accommodations for 150 women are now crowded with 230, and the number is steadily increasing. In making new arrangements it is very important that they should be the best known. The experience in Philadelphia, in New York, and in Michigan, has clearly established the decided advantage of providing for the care of the two sexes in distinct hospital buildings, having separate inclosures for each. Nowhere is the importance of such distinct provision for the female insane more clearly shown than at the Government Hospital for Insane. The male patients being in excess in point of numbers, the weaker party, as is usual in such cases, goes to the wall. In the matter of unrestricted liberty of the grounds, it is impossible to do justice to either sex so long as both share the same inclosures. All the space of the present buildings would only afford comfortable accommodations for the number of male patients now under treatment, if the rooms designed for day rooms and amusement rooms were no longer used as dormitories. With that change and a new building with all the modern improvements, built on a distinct site for the females, the United States could fairly claim to have made here a model provision for the indigent insane. The new building should be for 300 patients, and admit of

extensions to provide for 100 additional, without marring the architectural portions or the unity of design. Such a structure, of brick, fire-proof, complete in all its appointments, and embodying the best ideas of modern science in regard to the comfort and the cure of the insane can be completed for the sum named. The present steam, water, and gas supply, as well as the present bakery and laundry, would be available for both departments, and the whole would remain under one executive head. That there may be no delay in the erection of this very necessary building, the amount for expenditure in the fiscal year ending June 30, 1883, is asked immediately available.

Three citizens of Washington, each prominent in his sphere, who had in former years been members of the Board of Visitors, have passed away since the date of the last annual report. In view of the long and faithful service which each one of these gentlemen rendered to the hospital, it is deemed but proper that the resolutions of respect passed by the Board at their annual meeting should have a record here, and they are accordingly inserted.

DR. WILLIAM GUNTON.

Whereas this Board, since the date of its last annual meeting, has been called to mourn the loss of Dr. WILLIAM GUNTON, who for fifteen years held an honored place among its members, and who during a large portion of that time was called to preside over its deliberations: Therefore be it

Resolved, That with profound respect for his memory, we hereby testify and record our admiration for the high intellectual qualities, the rare business sagacity, the unremitting industry, and the spotless integrity with which he adorned his long, laborious, and useful career in the presence of this community, and which, as they followed him in the diligent and faithful performance of every duty and trust, were especially manifest to those of us whose privilege it was to consult with him for the interests of this Hospital, and for the welfare of its afflicted inmates, who ever found in him a friend as sympathetic in feeling as he was wise in counsel.

Resolved, That while we can but deplore the loss of one who made his career as full of useful activities and honorable labors as it was full of years, we desire at the same time to add to these sincere regrets the gratulations and thanksgivings which are most due for the spectacle of a finished life, as harmonious and symmetrical in its well-ordered proportions as it was remarkable for the length of days accorded to it by the favor of Divine Providence.

Resolved, That these resolutions be entered on the minutes of the Board, and that a copy of them be sent to the family of the deceased.

HON. RICHARD WALLACH.

Whereas the Hon. RICHARD WALLACH, for many years a member of this Board, has departed this life since the date of the last annual meeting: Therefore be it

Resolved, That with sincere admiration for the mental endowments and engaging social qualities with which he adorned every sphere of life, and which were never seen to better advantage than when they called him to high and responsible public trusts, we desire here to record our special and grateful recollection of the intelligence, fidelity, and zeal which he brought to the discharge of the philanthropic labors devolved upon him as a member of this Board during the entire period of his connection with it, and by which he has justly won for himself a name and place among the friends and benefactors of this institution.

Resolved, That this resolution be entered on the minutes of the Board, and that a copy of it be sent to the family of the deceased.

HON. HENRY D. COOKE.

Whereas the Hon. HENRY D. COOKE, for many years a member of this Board, has been called away from this life since the date of our last annual meeting: Therefore be it

Resolved, That we hereby place on record the tribute due to the commanding abilities, the high public spirit, and the patriotic enthusiasm which in a difficult crisis of our country were evinced by services as useful as they were brilliant, and which, as they followed him in the performance of the duties assumed towards this institution,

made him no less diligent than faithful in the discharge of the public trust with which he here identified his name, and with which his memory is now gratefully associated.

Resolved, That this resolution be placed on the minutes of the Board, and that a copy of it be sent to the family of the deceased.

Our acknowledgments are due to Washington amateurs for a number of dramatic and musical entertainments during the past winter, which were much enjoyed by our household, also to the Marine Band, under Professor Sousa, for an outdoor concert during the summer, which was quite an unusual treat. Amusements continue to be a prominent feature in the treatment of the insane, both here and elsewhere.

The medical staff of the hospital has been increased by the addition of a physician to the night watch, thus giving a medical officer always on duty at all hours of the day and night. Dr. A. C. Patterson, of Washington, D. C., who has for some months past performed this important night service in an acceptable manner, has been appointed to the position. We believe the result will show this step to have been a wise and important one, and that a night service which makes the medical service of a hospital continuous for the twenty-four hours will be found advantageous in all large establishments for the insane.

During a temporary absence of Dr. Witmer in Europe, Dr. M. S. Seip, senior assistant of the State Hospital at Danville, Pa., has rendered us valuable assistance.

The other officers of the staff remain as before, and have continued to perform their respective duties in a faithful and acceptable manner.

Again commending to Congress the interests of this great hospital, the importance of which can hardly be over-estimated or its responsibilities ignored,

We are, very respectfully, your obedient servants,

JOS. K. BARNES,
President of the Board.
W. W. GODDING,
Secretary ex-officio.

Hon. S. J. KIRKWOOD,
Secretary of the Interior.

GOVERNMENT HOSPITAL FOR THE INSANE,
Washington, D. C., October 1, 1881.

SIR: In accordance with act of Congress approved June 4, 1880, requiring the Superintendent of the Government Hospital for the Insane to make a report to Congress annually of the detailed receipts and expenditures of the hospital for the preceding fiscal year, I have the honor to submit the following statement.

I am, sir, very respectfully, your obedient servant,

W. W. GODDING,
Superintendent.

Hon. S. J. KIRKWOOD,
Secretary of the Interior.

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 187

[illegible]

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

[illegible]

Classified expenditures—Continued.
DRY GOODS AND CLOTHING, BOOKS AND STATIONERY, AND MISCELLANEOUS.

Furnished by—		On voucher numbered—	Boots, shoes, and slippers (new and repairing).	New clothing.	Material for clothing.	Hats.	Notions.	Books and periodicals.	Stationery and postage.	Freight and hauling.	Incidental work, &c.	Grand total.
1889.												
July 16	James Small	4									\$9 80	
17	Jacob Millard	5									9 90	
Aug. 7	James Van Laer	12						\$127 30				
9	National Republican	18									20 00	
9	Daily Critic	19									16 67	
9	Washington Journal	20									20 10	
18	H. B. Claffin & Co	26			\$92 21							
Sept. 9	G. C. Maynard	35									15 00	
10	James Small	36									2 00	
18	W. Lee White	45						5 75				
30	W. Ballantyne & Son	60							\$6 00			
30	George King	62	\$75 29									
30	J. J. Chapman	63							47 05			
30	H. Adler, agent	64					\$214 93					
30	E. Morrison	65							31 87			
30	B. Robinson & Co.	66		\$12 00								
30	Baltimore and Potomac Railroad Company	73										
30	Philadelphia steamer	76								\$2 82		
30	G. W. Knox	77								9 25		
30	Baltimore and Ohio Railroad Company	78								1 90		
30	R. P. A. Denham	80								9 20		
30	William Beaman	82								81 60		
30	Washington City post-office	89							34 41		6 50	
30	Evening Star Company	90										
30	Washington Post	91						41 95				
30	National Republican	92						52 25				
30	A. Saks & Co.	98		231 50				23 60				
30	R. Cohen	99	678 37									
30	Lansburgh & Bro.	100										
30	Adams Express Company	103		753 27								
30	C. H. Townsend	107		752 50						11 85		
Oct. 9	John P. Gray	109						5 00				

[illegible]

Classified expenditures—Continued.

MEDICAL SUPPLIES; EXPENDED FOR INDIVIDUAL PATIENTS AND FOR PATIENTS' AMUSEMENT.

Date.	Furnished by—	On voucher numbered—	Drugs and medicines.	Alcoholic stimulants.	Instruments.	Excess of board paid in advance and refunded.	Bought with patients' money.	Returning eloped patients.	Amusement of patients.	Sending to homes.	Grand total.
1880											
July 1	John Smith.....	1						\$5 00			
6	Abraham Lee	2						5 00			
12	J. H. Plainsted	3			\$2 50						
27	Alex. Hawkins	6						5 00			
Aug. 5	J. F. Hutchinson	10						5 00			
9	Thomas Brown	14						5 00			
28	John Tillman	28									
Sept. 9	S. O. Dunbar	32	\$6 00								
11	George Duvall	37						5 00			
11	George Craig	38						5 00			
13	John Tillman	41						5 00			
13	Jackson Gordon	42						5 00			
16	John James	43						5 00			
24	John Cooksey	50						5 00			
29	Daniel McCleary	53								\$59 50	
30	S. F. Shreve	72	218 77	\$106 90					\$8 00		
30	M. J. Stack	75					\$12 25				
30	W. W. Godding	79	160 27								
30	Stott & Cromwell	87		5 00							
30	G. G. Cornwell	96		70 50							
30	A. Saks & Co.	98					114 95				
30	R. Cohen	99					8 50				
30	Lansburgh & Bro	100					9 75				
Oct. 9	Samuel Anderson	108						5 00			
27	Barbour & Hamilton	114		81 75							
27	H. L. Strasburger	119					1 25				
Nov. 3	G. W. Foster	135								50	
20	M. E. Berry	154				\$20 57					
23	Marshall Phillips	156						5 00			
27	James Reeves	160				28 21					
Dec. 11	J. H. Rowland	178						5 00			
13	Alex. Bryant	179						5 00			

[illegible]

Classified expenditures—Continued.
MEDICAL SUPPLIES; EXPENDED FOR INDIVIDUAL PATIENTS AND FOR PATIENTS' AMUSEMENT—Continued.

Date.	Furnished by—	On voucher numbered—	Drugs and medicines.	Alcoholic stimulants.	Instruments.	Excess of board paid in advance and refunded.	Bought with patients' money.	Returning eloped patients.	Amusement of patients.	Sending to homes.	Grand total.
1881.											
June 3	R. Bennett.....	409						\$8 12			
9	Samuel Wilson.....	416						5 00			
13	William Nelson.....	419						5 00			
20	Henry Matthews.....	424						5 00			
22	Goodyear Rubber Company.....	435			\$6 00						
23	A. Behrend.....	438				\$33 00					
27	W. T. Anderson.....	440						5 00			
29	Samuel Jones.....	441						5 00			
30	B. Tully.....	447									
30	G. G. Cornwell.....	449		\$119 50					\$10 00		
30	R. Cohen.....	462					\$4 00				
30	Charles Fischer.....	468			9 50						
30	M. J. Stack.....	475							17 50		
30	W. H. Godding.....	476					9 92				
30	A. Saks & Co.....	485					94 05				
30	Perry & Bro.....	494					20 86				
30	S. F. Shreve.....	505	\$302 49								
30	Stott & Cromwell.....	511	96 01								
30	W. G. Metzertott & Co.....	514									
30	Barbour & Hamilton.....	516		138 58					3 18		
Apr. 26	do.....	4		77 88							
	Totals.....		1, 432 30	1, 124 77	116 48	149 78	428 70	213 12	433 63	141 45	\$4, 040 23

Classified expenses—Continued.

FARM, GARDEN, AND STABLE.

Date.	Furnished by—	On voucher numbered—	Feed.	Implements, horseshoes, &c.	Plants and seeds.	Manures.	Live stock.	Harness and repairs.	Vehicles and repairs.	Grand total.
1880.										
Aug. 7	Henry Newby.....	11	.....	.....	\$6 00	.....	.....	.....	.....	.....
9	P. Henderson & Co.....	16	.....	.....	14 00	.....	.....	.....	.....	.....
21	N. Studer.....	27	.....	.....	10 00	.....	.....	.....	.....	.....
Sept. 13	S. A. Smith.....	39	.....	.....	.....	.....	.....	.....	\$60 00	.....
30	J. T. Price & Son.....	54	.....	.....	.....	\$25 00	.....	.....	.....	.....
30	Lutz & Bro.....	58	.....	.....	.....	.....	.....	\$344 75	.....	.....
30	John Anthony.....	68	.....	\$4 40	.....	.....	.....	.....	.....	.....
30	John A. Baker.....	70	.....	117 76	23 87	99 49	.....	.....	.....	.....
30	George W. Wood.....	83	.....	.....	26 00	.....	.....	.....	.....	.....
30	Allison Nailor, jr.....	93	.....	.....	.....	50 00	.....	.....	.....	.....
Oct. 27	W. M. Galt & Co.....	115	\$1,421 44	.....	.....	.....	.....	.....	150 00	.....
27	J. McDermott & Bro.....	122	.....	.....	.....	.....	.....	.....	200 00	.....
27	Jacob Wenger.....	128	.....	.....	.....	.....	.....	.....	.....	.....
27	John Douglass.....	130	.....	.....	14 00	.....	.....	.....	.....	.....
Nov. 3	John Anthony.....	134	.....	5 45	.....	.....	.....	.....	.....	.....
4	H. B. Claflin & Co.....	137	.....	.....	.....	.....	.....	81 20	.....	.....
10	James A. Beall.....	144	.....	.....	.....	.....	.....	.....	38 10	.....
10	J. E. Haines.....	145	.....	.....	.....	.....	.....	.....	9 25	.....
13	Ernest McGill.....	147	.....	.....	.....	.....	\$15 00	.....	.....	.....
16	R. T. Lombard.....	159	.....	.....	.....	.....	17 00	.....	.....	.....
29	Paul Hiser.....	161	.....	11 50	.....	.....	.....	.....	.....	.....
30	S. G. Wintemitz & Bro.....	162	.....	33 50	.....	.....	.....	.....	.....	.....
Dec. 2	S. A. Smith.....	164	.....	.....	.....	.....	.....	.....	16 30	.....
20	James A. Beall.....	183	.....	.....	.....	25 00	.....	.....	80 00	.....
31	J. T. Price & Son.....	186	.....	.....	.....	.....	.....	46 30	.....	.....
31	Lutz & Bro.....	195	.....	.....	.....	.....	.....	.....	.....	.....
31	John A. Baker.....	201	.....	105 12	143 00	14 61	.....	.....	.....	.....
31	Allison Nailor, jr.....	233	.....	.....	.....	50 00	.....	.....	.....	.....
1881.										
Jan. 20	J. E. Haines.....	260	.....	.....	.....	.....	.....	.....	35 16	.....
25	W. M. Galt & Co.....	262	1,735 65	.....	.....	.....	.....	.....	.....	.....
Feb. 5	P. Henderson & Co.....	278	.....	.....	163 58	.....	.....	.....	.....	.....

Classified expenses—Continued.
FARM, GARDEN, AND STABLE—Continued.

Date.	Furnished by—	On voucher numbered—	Feed.	Implements, horseshoes, &c.	Plants and seeds.	Manures.	Live stock.	Harness and repairs.	Vehicles and repairs.	Grand total.
1881. Mar. 2	J. A. Beall	279							\$68 50	
23	N. Humphrey	309			\$14 38					
28	J. A. Beall	310							28 50	
29	P. Henderson & Co	314			31 20					
31	J. T. Price & Son	317				\$25 00				
31	John Saul	321			37 65					
31	Austin Herr	324	\$111 00							
31	Lutz & Bro.	327						\$41 42		
31	A. J. Joyce	331								
31	John McDermott & Bro	333							33 36	
31	Allison Nailor, jr.	338				50 00			77 00	
31	Washington and Georgetown Railroad Company	347				4 47				
31	John A. Baker	360		\$104 90	62 50	349 00				
Apr. 11	G. W. Woods	377			15 00					
29	William Nally	391					\$2 25			
May 17	N. Studer	403			9 00					
June 3	S. Swindells	410			3 18					
3	S. A. Smith	413		36 20						
8	J. W. Tolson	415			12 00					
30	Allison Nailor, jr.	446				50 00				
30	W. M. Galt & Co	451	1,738 00							
30	A. J. Joyce	459							4 00	
30	J. A. Baker	467		165 13	63 73	21 80				
30	J. T. Price & Son	474				25 00				
30	John Boyle	477			3 00					
30	J. H. Mitchell	486		9 75						
30	Lutz & Bro.	488						10 63		
30	Washington and Georgetown Railroad Company	501				54 00				
Apr. 26	W. M. Galt & Co	5	1,741 60							
	Totals		6,742 69	593 71	652 09	843 37	36 25	524 30	800 17	\$10,192 58

[illegible]

Classified expenditures—Continued.

SALARIES AND WAGES.

Date.	Furnished by—	On voucher numbered—	Superintendent, physi- cians, general office, &c.	Ward service.	Inside domestic depart- ment.	Engineers' department.	Farm and garden, haul- ing coal, drivers of patients' carriages, &c.	Sunday services.	Mechanics and helpers.	Manufacturing clothing, bedding, &c.	Laundry.	Grand total.
1880.												
Sept. 30	Pay-rolls, support.....	104	\$2,198 20	\$4,990 81	\$534 00		\$280 22	\$37 50		\$135 00		
30	do.....	105		433 10	1,550 40					214 32	\$650 22	
30	do.....	106				\$745 87	3,442 48			90 00		
30	Pay-rolls, relief.....	18							\$341 05			
30	Pay-rolls, repairs.....	10							3,748 99			
Dec. 31	Pay-rolls, support.....	251	2,198 50	4,092 69	567 40		246 40	37 50	995 40			
31	do.....	252		1,608 24	1,539 03					134 00		
31	do.....	253				818 11	2,162 83			235 50	660 00	
31	Pay-rolls, relief.....	29							1,792 61	116 77		
1881.									301 10			
Mar. 31	Pay-rolls, support.....	371	2,966 12	4,173 96	159 00			37 50		135 00		
31	do.....	372	1,632 01		1,326 32				226 19			
31	do.....	373			289 35	1,219 67	1,979 80		1,348 79	331 50	680 00	
June 15	J. W. Parker.....	420						100 00				
15	J. G. Butler.....	421						100 00				
30	John Lanahan.....	442						100 00				
30	S. F. Ryan.....	443						100 00				
30	A. F. Steele.....	444						100 00				
30	John Chester.....	445						100 00				
30	Pay-rolls, support.....	518	2,706 80	4,286 05	345 00		272 98	37 50		189 00		
30	do.....	519		1,549 86	1,654 30					196 50	673 96	
30	do.....	520				845 50	2,696 39		1,540 72	120 00		
	Totals.....		11,701 63	21,134 71	7,964 80	3,629 15	11,081 10	750 00	10,294 85	1,897 59	2,664 18	\$71,118 01

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 203

Detailed statement of receipts and expenditures for the fiscal year ending June 30, 1881.

RECEIPTS.

Appropriation for support	\$143,000 00
Appropriation for relief building	13,585 18
Appropriation for repairs and improvements	5,000 00
Appropriation for deficiency in support	11,250 00
Receipts for board and special attendance	53,311 65
Total	226,146 83

EXPENDITURES.

Subsistence:

Flour, meal, and crackers	\$10,834 04
Ice	1,244 09
Butter, cheese, and eggs	10,026 11
Fresh meats	25,764 10
Smoked and salt meats	3,853 23
Poultry and fish	3,684 70
Tea and coffee	5,239 50
Sugar and molasses	6,656 15
Other groceries	5,776 50
Fruits and vegetables	4,236 31
	77,314 73

House furnishing, fuel, and lights, &c.:

Furniture and furnishing	3,318 78
Bedding	7,100 02
Table and towel linen	221 28
Utensils, crockery, &c.	1,463 84
Kitchen fittings, &c.	1,383 01
Laundry supplies	1,589 77
Carpets	523 34
Repairing billiard tables, &c.	258 50
Hard coal	3,306 59
Soft coal	8,037 94
Lights and oils, &c.	2,034 57
	29,237 64

Dry goods and clothing; books and stationery, and miscellaneous:

Boots, shoes, and slippers, new and repairing	2,164 80
New clothing	4,435 28
Material for clothing	5,283 97
Hats	440 10
Notions	851 25
Books and periodicals	860 25
Stationery and postage	763 54
Freight and hauling	379 15
Incidental work	388 92
	15,567 26

Medical supplies; expended for individual patients and for patients' amusement:

Drugs and medicines	1,432 30
Alcoholic stimulants	1,124 77
Instruments	116 48
Board rebated	149 78
Returning eloped patients	213 12
Amusement of patients	433 63
Sending patients to their homes	141 45
Bought with patients' money	428 70
	4,040 23

Farm, garden, and stable:

Feed for stock	6,742 69
Implements, horseshoes, &c.	593 71
Plants and seeds	652 09
Manures	843 37
Live stock	36 25
Harness and repairs	524 30
Vehicles and repairs	800 17
	10,192 58

204 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Repairs and improvements:	\$3,413 31	
Lumber, doors, &c.....	2,321 43	
Hardware.....	5,534 12	
Engineers' and plumbers' supplies.....	1,499 15	
Paints, oils, and glass.....	8 10	
Roofing.....	2,690 26	
Iron work.....	319 81	
Plastering.....	185 30	
Sundry small repairs.....	971 35	
Fire and other apparatus, boilers, &c.....	724 36	
Masons' supplies.....	653 05	
Paths, roads, &c.....	356 07	
Lightning-rods.....		\$18,676 31
Salaries and wages:		
Superintendent, physicians, office, &c.....	11,701 63	
Ward service.....	21,134 71	
Inside domestic service.....	7,964 80	
Engineers' department.....	3,629 15	
Farm and garden; includes also hauling stores and coal, keeping roads in order, driving out patients, &c.....	11,081 10	
Sunday service.....	750 00	
Mechanics and helpers.....	10,294 85	
Manufacturing clothing, bedding, &c.....	1,897 59	
Laundry service.....	2,664 18	
		71,118 01
Covered into United States Treasury.....		07
Total.....		226,146 83

Itemized receipts.

1880.		
July	1. Board paid for M. E. Cazenove.....	156 00
	1. Board paid for Ann Phillips.....	52 00
	1. Board paid for Jane T. Case.....	91 00
	3. Board paid for Annie West.....	5 00
	6. Board paid for W. M. Bryant.....	91 00
	9. Board paid for H. Buchlers.....	132 00
	9. Board paid for Annie West.....	5 00
	12. Board paid for Bryan Hall.....	65 00
	12. Board paid for Sarah C. Wood.....	186 20
	14. Special attendance paid for Rollin Perkins.....	75 00
	17. Board paid for Sarah C. Cox.....	30 00
	17. Special attendance paid for G. F. Morrison.....	24 93
	17. Board paid for Marine Hospital patients.....	442 93
	21. Board paid for C. K. Yancey.....	87 00
	22. Board paid for District of Columbia patients.....	1,517 01
	22. Board paid for Adolph Berger.....	65 00
	22. Board paid for Rose Amer.....	97 50
	22. Board paid for John Weidman.....	99 35
	24. Board paid for A. F. Brooks.....	30 00
	30. Board paid for Burton Randall.....	96 00
Aug.	2. Board paid for Angelina Reeves.....	32 50
	7. Board paid for M. R. Key.....	65 00
	15. Board paid for Mary Harris.....	92 00
	19. Board paid for J. C. Fisher.....	52 00
	19. Board paid for H. S. Cottel.....	112 50
	29. Board paid for A. F. Brooks.....	35 00
Sept.	2. Board paid for Jane T. Case.....	91 00
	6. Board paid for Sarah C. Cox.....	30 00
	8. Board paid for J. P. Hutchins.....	130 75
	16. Board paid for A. F. Brooks.....	20 00
	17. Special attendance paid for Meyer Strauss.....	65 00
	22. Board paid for Henry Price.....	65 00
	28. Board paid for Lucy D. Stanton.....	122 15
	30. Board paid for Mary De Caindry.....	91 00
Oct.	2. Board paid for J. D. Harris.....	130 00
	4. Board paid for C. K. Yancey.....	100 50
	7. Board paid for Mary Harris.....	94 71
	7. Board paid for W. M. Bryant.....	91 00

1880.			
Oct.	7.	Board paid for Ann Phillips	\$52 00
	8.	Board paid for Bryan Hall	65 00
	11.	Board paid for Marine Hospital patients	453 84
	11.	Special attendance for Rollin Perkins	76 50
	11.	Board paid for H. Buchlers	180 15
	12.	Board paid for Adolph Berger	65 00
	13.	Board paid for W. H. Hull	71 43
	16.	Board paid for A. F. Brooks	20 00
	21.	Board paid for M. E. Cazenove	170 11
	25.	Board paid for C. K. Yancey	1 25
	27.	Board paid for John Weidman	153 30
	30.	Board paid for H. S. Cattel	112 50
Nov.	3.	Board paid for Jennie M. Lowell	90 00
	3.	Board paid for W. V. Wolfe	91 00
	3.	Special attendance paid for G. F. Morrison	25 00
	6.	Board paid for M. R. Key	65 00
	9.	Board paid for Sarah C. Cox	30 00
	13.	Board paid for Mary P. Rodgers	20 00
	24.	Board paid for Burton Randall	91 00
	27.	Board paid for District of Columbia patients	4,606 77
Dec.	4.	Board paid for Jennie M. Lowell	2 00
	16.	Board paid for District of Columbia patients	5,405 34
	17.	Board paid for A. F. Brooks	30 00
	30.	Clothing paid for N. T. West	21 00
	31.	Board paid for Henry Price	65 00
	31.	Board paid for A. F. Brooks	20 00
	31.	Board paid for Jane T. Case	91 00
	31.	Board paid for Mary De Caindry	91 00
1881.			
Jan.	2.	Board paid for J. D. Harris	65 00
	4.	Special attendance paid for Meyer Strauss	65 00
	7.	Board paid for Mary P. Rodgers	77 00
	7.	Board paid for Bryan Hall	100 00
	7.	Board paid for W. M. Bryant	91 00
	8.	Board paid for W. H. Hull	65 00
	9.	Special attendance paid for Rollin Perkins	75 00
	10.	Board paid for H. Buchlers	171 10
	11.	Board paid for Adolph Berger	65 00
	13.	Board paid for W. V. Wolfe	65 00
	15.	Board paid for Marine Hospital patients	534 92
	15.	Board paid for A. J. Ambler	30 00
	18.	Board paid for Rose Amer	70 00
	18.	Board paid for August Meyer	195 00
	19.	Board paid for H. S. Cattel	112 50
	24.	Board paid for District of Columbia patients	10,187 04
	24.	Board paid for Sarah C. Cox	30 00
	26.	Board paid for M. E. Cazenove	156 00
	28.	Board paid for John Weidman	120 25
	31.	Board paid for Sarah C. Wood	182 00
Feb.	1.	Board paid for Ann Phillips	52 00
	3.	Special attendance paid for G. F. Morrison	25 00
	3.	Board paid for Jennie M. Lowell	58 00
	4.	Board paid for M. R. Key	65 00
	16.	Board paid for Otho Gartrell	60 00
	17.	Board paid for C. K. Yancey	91 00
	19.	Board paid for George Beckman	195 50
	21.	Board paid for D. W. Garst	91 00
Mar.	3.	Board paid for A. J. Ambler	20 00
	11.	Board paid for Burton Randall	91 00
	16.	Board paid for Ann Phillips	52 00
	22.	Board paid for Sarah C. Cox	30 00
	22.	Board paid for S. M. Tilly	20 00
	23.	Board paid for A. J. Ambler	10 00
	25.	Board paid for Wm. Prince	459 64
	31.	Board paid for Jane T. Case	91 00
	31.	Board paid for Mary De Caindry	91 00
Apr.	1.	Board paid for A. J. Ambler	10 00
	2.	Board paid for Jennie M. Lowell	90 00
	2.	Board paid for J. D. Harris	65 00

206 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

1881.			
Apr.	5.	Board paid for Marry Harris	\$2 48
	7.	Special attendance paid for Rollin Perkins	75 00
	9.	Board paid for Bryan Hall	64 50
	9.	Board paid for W. H. Bryant	91 00
	9.	Board paid for H. Buchlers	147 00
	9.	Board paid for Mary P. Rodgers	222 20
	12.	Board paid for Adolph Berger	65 00
	12.	Board paid for W. H. Hull	65 00
	13.	Board paid for William Kiely	119 29
	13.	Board paid for Henry Price	65 00
	14.	Board paid for Sarah C. Cox	103 00
	15.	Board paid for Marine Hospital patients	597 14
	15.	Board paid for A. J. Ambler	12 86
	15.	Board paid for W. V. Wolfe	106 50
	18.	Board paid for C. K. Yancey	90 00
	20.	Board paid for M. E. Cazenove	156 00
	26.	Board paid for District of Columbia patients	10, 304 28
	28.	Board paid for A. Behrend	91 00
	28.	Board paid for John Weidman	118 90
May	14.	Board paid for E. C. Carrington	36 00
	14.	Board paid for George Beckman	65 00
	16.	Board paid for Angelina Reeves	91 00
	19.	Board paid for D. W. Garst	39 00
	28.	Board paid for John Conline	105 00
June	1.	Board paid for M. R. Key	65 00
	3.	Board paid for J. P. Hutchins	195 00
	15.	Board paid for Bridget Cogan	65 00
	21.	Board paid for Ann Phillips	52 00
	21.	Board paid for District of Columbia patients	6, 496 57
	22.	Board paid for Edward Burchell	192 33
	22.	Board paid for E. C. Carrington	47 00
	25.	Board paid for A. J. Homiller	91 00
	25.	Board paid for Mary P. Rodgers	182 00
	30.	Board paid for J. T. Case	91 00
	30.	Board paid for Jennie M. Lowell	92 00
	30.	Board paid for J. D. Harris	65 00
	30.	Board paid for Bryan Hall	65 00
	30.	Board paid for H. Buchlers	167 02
	30.	Board paid for Sarah R. Cox	65 33
	30.	Board paid for Mary De Ccindry	91 00
	30.	Board paid for W. M. Bryant	91 00
	30.	Board paid for Marine Hospital patients	574 72
	30.	Board paid for Burton Randall	182 00
	30.	Board paid for M. E. Cazenove	176 86
	30.	Board paid for H. S. Cottel	225 00
	30.	Board paid for Adolph Berger	65 00
	30.	Special attendance paid for Rollin Perkins	75 00
Total			53, 311 65

X.—REPORT OF THE OPERATIONS OF THE ENGINEER DEPARTMENT,

UNDER THE DIRECTION OF MAJ. WILLIAM J. TWINING, CORPS OF ENGINEERS, U. S. A., ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

A.—REPORT OF LIEUT. RICHARD L. HOXIE, CORPS OF ENGINEERS, U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

ENGINEER DEPARTMENT, D. C.,
Washington, October 1, 1881.

MAJOR: I have the honor to submit the following report of operations for the fiscal year ending June 30, 1881, together with estimates for the fiscal year ending June 30, 1883.

Summary statement of operations and estimates.

Description.	Expenditures during year ending June 30, 1881.	Appropriations for year ending June 30, 1882.	Estimates for year ending June 30, 1883.
1 Engineer Department, salaries.	\$28,806 35	\$27,350 00	\$28,510 00
2 Engineer Department, temporary writers and draughtsmen		1,500 00	1,500 00
3 Engineer Department, contingent expenses.....	4,973 59	4,000 00	5,000 00
4 Water department, office and contingent expenses..			14,139 00
5 Water department, employes, fuel, material, &c., for high service			16,718 75
6 Water department, pipe distribution to high and low service, and laying new mains.....	140,738 74		35,582 75
7 Water Department, interest and sinking fund on water stock bonds.....			44,610 00
8 Cleaning and repairing lateral sewers and basins....	15,416 38	20,000 00	30,000 00
9 Lateral sewers, construction of	14,900 00	15,000 00	30,000 00
10 Boundary-street sewer.....	*79,286 40	50,000 00	100,000 00
11 Auxiliary sewer in Rock Creek District.....			70,000 00
12 Public hay scales.....	52 90	500 00	500 00
13 Dredging James Creek Canal.....		5,000 00	5,000 00
14 Markets, compensation of market masters.....	4,930 32	5,400 00	5,400 00
15 Markets, contingent expenses	4,447 16	1,500 00	1,500 00
16 Cleaning tidal sewers.....	2,962 31	3,000 00	3,000 00
17 Material for permit work, sewers	6,220 56	†15,000 00	10,000 00
18 Division of sewers and drains.....			2,460 00
19 New York avenue sewer and outlet	28,000 00	7,000 00	
20 Dredging channel across flats and completing canal outlet.....	8,443 14		
21 Pumps.....	2,997 83	3,000 90	3,500 00

* \$69,295.09 charged to appropriation for 1878-'79 and 1879-'80.

† Includes sewer and surface work.

SPECIAL ASSESSMENTS.

The revision of the special assessments has been completed in accordance with the acts of Congress approved June 19, 1878, and June 27, 1879. The detailed statement will be found in the report of Mr. Wm O. Roome, transmitted herewith.

The net result of the revision is as follows :

Original assessments	\$4, 875, 546 45
Revised assessments	3, 711, 669 92
Difference	1, 163, 876 53

In cases where the revision increased the assessment it has been held that the original and lesser assessments should stand. The aggregate decrease is, therefore, the net loss, and is \$1,240,525.14; leaving collectible, or paid, on the revised assessments, \$3,635,021.31, with interest. Interest is also due upon the unpaid assessments.

In the annual report of the Commissioners for 1875, it was estimated that the amount of special assessments yet to be issued was (approximately) \$2,078,635.69. There had then been issued \$3,150,059.47. Total, \$5,228,695.16. Upon this was predicated an available surplus, after the redemption of the 8 per cent. improvement bonds, of \$1,689,844.74.

After that date, and prior to the revisions authorized by Congress, the amount of the original assessments fell short of the estimated amount by \$353,148.71. The revisions have reduced them \$1,240,525.14; giving a total loss of \$1,593,673.85.

It would appear, therefore, that the surplus estimated in 1875 has been nearly absorbed as to the principal by the revisions.

The books of the special assessment office show a balance of uncollected tax originally pledged to the redemption of these bonds, of \$684,131.55, upon which interest at 10 per cent. is due from the various dates of the lien certificates, beginning with A. D. 1873. This interest will continue to run at 10 per cent. until the tax is paid.

It is not practicable to give from the special assessment office a statement of the 8 per cent. bonds; but it may be assumed that the amount outstanding, including principal and interest, will not exceed \$700,000. The interest is now running at 6 per cent., the bonds having all matured.

It is to be remembered, however, that the acts of June 19, 1878, and June 27, 1879, have virtually negatived the law which pledged the special assessment tax collectible after May 29, 1873, to the redemption of the 8 per cents., by making drawback certificates receivable in payment of this tax. Up to this date there have been received \$244,732.41 of the drawbacks.

There are drawback certificates outstanding or ready for issue, which are receivable at any time in payment of this tax, though otherwise receivable in payment of certain arrears of general tax, amounting to \$64,838.36. Other drawback certificates are ready for issue, receivable, also, at any time in payment of this tax, and redeemable only from the proceeds of the same, amounting to \$105,520.59. The former draw no interest; upon the latter, interest is claimed.

It is evident that no further concession can be made to delinquents in this tax, unless other provision shall be made for the redemption of the drawbacks and bonds.

There has been presented to Congress, with each annual report of the Commissioners since 1873, an approximate statement of the account of the United States with the special improvement tax. The revisions having been completed, it is found that the amount chargeable to the United States is \$3,324,707.99. Credit by appropriations, \$3,522,936.18. Balance to credit of United States, \$198,228.19.

The rule of apportionment has been to place the United States in the attitude of the District government, with respect to the improvement, wherever United States property fronted upon the line. If the United States owned upon both sides of the street or avenue where improved,

the whole cost was charged to the general government. If upon one side only, five-sixths of the cost was charged to the general government, leaving one-sixth, as contemplated by law; to be assessed against private property adjoining and immediately benefited.

Specific acts making appropriations to pay the proportional part of the United States have been passed since 1871, pursuant to estimates based upon this rule. It may therefore be assumed that the basis of adjustment has had sufficiently the attention and sanction of Congress, and that credit should not be given the United States upon this account for other than appropriations specifically made for this purpose.

Concurrently with the street improvements and laying of small lateral sewers, the cost of which is the basis of the special assessments actually made, there was undertaken by the board of public works the construction of certain large main sewers, of which the principal items of cost will aggregate \$1,948,838.55.

To apportion fairly the cost of these, the board of public works levied a tax differing in method and proportion from that for the street improvements.

The city was divided into its several natural drainage areas, and each area assessed in advance of the completion of the work, for the cost of the corresponding system of drainage required, at an uniform rate per square foot. A more equitable distribution of cost could not be made, but authority of law was wanting for the levying of the tax in this manner.

The action of the board of public works was set aside by Congress, the portion of the tax collected was required to be refunded, and the sewerage certificates to be redeemed. The burden was thus lifted from the shoulders of the beneficiaries and settled upon those who were not.

As all of this was merged in the general funding of floating debt into 3.65 bonds, of which the United States assumes one-half the payment, it would appear upon superficial examination that the United States should not be debited upon its special improvement account with any part of this expenditure because of equitable considerations.

A careful consideration of all the facts appears to indicate the contrary.

The present organic law, which took effect in June, 1878, assumes for the United States one-half the debt of the District of Columbia as existing at that time. If it could be shown that an equitable balance was struck in this, then the special account for improvements would be equitably credited with that element of the funded debt so assumed.

The report of the Commissioners of the District of Columbia for 1878 (page 4) contains an approximate statement of this question, showing that after assuming one-half the debt of the District of Columbia, in June, 1878, the tardy justice of the United States is still far in arrears, approximately \$16,000,000.

Since this is the case, it requires but little reflection to see that the elements of the 3.65 funded debt have no significance. The assumption of one-half is a payment on account of a large arrears, and has no further application to the account for special improvement than has the assumption by the United States of one-half the old bonded debt of Washington and Georgetown. It was not so intended.

The annulment of the illegal special tax levied by the board of public works on account of the main sewers did not withdraw this class of work, when completed, from the operation of the law which authorized the assessment of one-third the cost upon adjoining property, but equitable considerations make the law inapplicable.

Congress has forbidden the equitable division of the cost, in proportion to the benefit conferred, and compels the alternative of not assessing at all. So the District loses the additional tax.

It is not unreasonable, then, to assume that the cost should be equally divided between the United States and the District of Columbia, the special improvement account of the United States being debited to this extent.

In closing the subject of special improvement tax I am constrained to repeat the conclusions arrived at in 1875 and reiterated in 1879 :

The operation of the law has not been always uniform and equitable, and the latitude of executive discretion in administering it has not favored uniformity of application. * * It provided that a reasonable proportion, not exceeding one-third the cost thereof, should be assessed against the property adjoining and especially benefited by the work of improvement which the territorial government was created to inaugurate. For similar improvement under the preceding form of government the entire cost was assessed against the adjoining property. * * *

Under the present permanent commission government the United States pays one-half, the general fund of the District one-half, and adjoining property pays nothing. This is the opposite extreme, between which and the corporation method of imposing the whole cost upon adjoining property the law assessing one-third of the cost was the mean. In consulting the wishes of property-owners as to the location of needed improvements, it will be difficult to find any law of natural selection to take the place of this. Under the corporation government the expressed wish of the adjoining owners was a necessary preliminary to the execution of the work and the consequent imposition of the tax. Under the present government the absence of a special tax evokes contending claimants for the benefits of the work of improvement.

It is to be remembered that the "rules for revision" recognize the obligation of the District of Columbia to replace the rotten wood pavements, for which a special tax is collected, with other and durable pavements.

DRAINAGE AND SEWERAGE.

Work has progressed rather slowly upon the Boundary intercepting sewer. Some difficulty has been encountered from subterranean springs, sandy bottom, and caving banks, but the principal obstacle has been the delay incidental to contract work. The cost has been increased by the nature of the foundation required, and the delay has caused the loss of the advantage due to the lower prices prevailing at the time this work was first advertised. The lower and larger section, 22 feet in diameter, has been completed, and no further difficulty is encountered at present in constructing the 20-foot section. In all, about 3,000 feet have been completed.

It is proposed to begin the relief of the northwestern section of Washington by constructing an additional main sewer in the Slash Run District, where it is very much needed. The present sewers are too small, and will flood nearly every house in this district in severe storms. An estimate for this is presented herewith.

Another severe storm last June sustains the record of the past 20 years, and shows the necessity for ample capacity in the sewers. A rainfall occurred of 2.35 inches in the afternoon of the 28th, of which 1.566 inches fell in 25 minutes, a rate of $3\frac{3}{4}$ inches per hour. The New York avenue sewer had just been completed. Its size is computed for a rainfall of 2 inches per hour, and it was severely tried, the water standing four feet above the arch in the man-holes. It is to be regretted that at this time the lower part of the sewer was somewhat obstructed by an awkward attachment of telegraph wires to the interior of the arch. This had, no doubt, some retarding effect upon the flow of water, and prevents a satisfactory comparison of the actual with the

theoretical. It is very clear, however, that 2 inches of rainfall per hour is a moderate estimate as a basis for computing the necessary capacity of the sewers. The new system is making reasonable progress and will advance more rapidly when a larger share of the annual appropriations can be given to the work.

Meanwhile a matter of growing importance is the repair and the incidental modernizing of the old system. The invert of all the old brick sewers are rapidly wearing out, under the influence of transported sand and gravel. The repairs must be effected by a complete renewal of the invert, with generally a change of shape, and in every case with more durable material, glazed terra-cotta for the smaller sewers, and trap-rock blocks for the larger ones. It will be practicable to effect this with the larger ones by working within the existing sewers, but the smaller brick sewers, and all defective pipe sewers, must be dug up and rebuilt.

The Fourteenth street sewer, $4\frac{1}{2}$ feet in diameter, had a dangerous break in the invert last summer, 160 feet in length. The invert was replaced with trap rock, laid upon a foundation of hydraulic concrete, at a cost of \$3.72 per linear foot. The work was done under many disadvantages and without such appliances as will be used when this class of work is taken in hand. The cost may, therefore, be considered excessive. There are upwards of forty miles of brick invert that must, sooner or later, be replaced with other material, but the average cost will probably be much less than that of the Fourteenth street sewer repair, and fortunately will be distributed over a long interval of time. The completion of the intercepting sewers on Boundary street will extend this time. The sand and gravel brought down by the county streams is the principal agent of destruction of the old brick invert, and this will be turned aside upon the hard trap-rock invert of the new sewers.

Some idea of the quantity of this material is given by the following statement, for the two years ending June 30, 1881, of the quantity obtained from Tiber sewer:

2,541 cubic yards sand, sold at 60 cents per yard.....	\$1,524 60
402 cubic yards gravel, sold at \$1 per yard	402 00
166 cubic yards gravel, sold at 50 cents per yard.....	83 00
256 cubic yards miscellaneous stone, sold at.....	354 50
3,365 cubic yards material, value	2,363 50
Cost of extraction, less cost of plant.....	3,050 00
Net cost.....	686 50

But to this must be added the wear and tear of the perishing invert.

THE RECLAMATION OF THE FLATS.

All of these features of the drainage system have the attention of Congress and are cared for in the regular annual appropriations, but an urgent need exists of immediate attention to the outlets of the sewers on the river front, and the reclamation of the marshes through which they must pass. Plans for the new river front were long ago prepared under your direction, and should be urged upon the attention of Congress at the coming session. The elements are simple, and inexpensive. The plans contemplate doing only what the river is doing itself, but too slowly. The work is necessary for the improvement of the river channel, and the danger to the health of the residents of the District may surely be urged as an argument against further delay.

There is nothing difficult or unusual in the work to be undertaken, and there is neither necessity for nor propriety in copying blindly from

any other locality. A sandy flat is forming in front of the city, because the river channel is wider here than is necessary. We have only to fill this sufficiently to change it from marsh to dry land, and protect the border by an embankment that will not wash away. If filled a little above high tide it may readily be kept dry by surface drains and flood-valves, and the embankment will keep off the freshets. This would be the first stage of the work. The filling to a desirable elevation above tide may be cheaply completed afterwards in dredging the river channel, and need not be hurried. The marsh disappears at the first stage of the work.

It is fortunate that we have not to apply the system of the low countries. Holland needs land for agriculture, and finds that the bottom of the sea on her borders makes fertile land. She builds enormous embankments, strong enough to resist the sea, and maintains them under constant supervision at great peril. The outer slopes are strongly revetted, and the inner slopes of grass have dumb watchers in great flocks of sheep that trample down the holes made by burrowing animals. Powerful pumps lift the water from the bottom to the surface of the sea, first throwing out the sea water and then forever after working to keep the land dry.

Holland has no desire to fill the low ground so reclaimed. She has nothing to fill with except water. She wants the bottom of the sea as she finds it. She grows her bread there. If ours were a case of Holland it would be well to reconsider the question of moving the capital.

WATER SUPPLY.

It is hardly of less importance that the additional supply of water, so much needed in the higher sections of the city, should be at once provided. Estimates and plans have been presented from time to time, and it is to be hoped that this matter will receive the attention of Congress. If it be considered that the present supply of 25,000,000 gallons per diem is sufficient, it must be remembered that this amount can only be brought in at an insufficient elevation; and more pumps would be necessary to give the high grounds their share. A quarter of a million dollars invested in meters, with sufficiently prohibitory rates, would reduce the consumption to any desired, and far below any desirable, quantity; but it is hardly advisable.

In the use of pure water we are yet only one-half as high in the scale of civilization as were ancient Rome, Jerusalem, Byzantium. Their water supply was 300 gallons per capita, and it came long distances—from many different sources—in costly aqueducts. We have within easy reach a least flow of a thousand million gallons per day of pure water dashing to waste over the Great Falls of the Potomac. There may be some excuse for the wasted energy of Niagara. No field of enterprise seems great enough or near enough to take it in; but the Potomac has its mission in Washington.

At the present, we need only a commencement—an appropriation sufficient to bring to the city what can already be brought as far as the distributing reservoir, and this is sorely needed.

It cannot be far in the future that a generous supply will flow through the city for every conceivable use. Then the reservoir on Rock Creek will be needed. It will be a beautiful lake of 2,000 acres, with rocky shores and promontories jutting out in every direction. It will have a greatest depth of 140 feet, with all the advantages of this great depth of water, and a capacity of nearly two thousand millions of gallons in

the first three feet of depth. The rocky banks will be their own revetment. The growing timber in the proposed bed of the lake will pay for its own removal. A dam of impervious masonry will close the gorge of the lake, joining rock to rock on either side. The cost will be \$800,000 for the dam and the price of 2,000 acres of steep rocky hillside for the bed of the lake.

For the purpose of the reservoir nothing further would be needed, except legislation prescribing appropriate sanitary regulations.

The causeway of the Seventh street road over Piney Branch would, perhaps have to be raised slightly, but the cost would be insignificant. No other highways cross the site of the reservoir, but a number of local county roads could be taken across by bridge and causeway at shallow points, if thought advisable. A continuous drive around the lake would be constructed in the course of time, and the rest of the park would follow, covering the drainage area of Rock Creek within the District.

RAILROADS.

In compliance with your instructions I have carefully examined into the question of the removal of the present steam railroads from the surface of the streets, within the limits of Washington, and adjusting them to the established grades of the city in such manner as to offer the least obstruction to ordinary surface traffic. In this investigation I have kept in view the general plan and the several requirements prescribed by you. The result is shown in the accompanying plans and estimates, which may be briefly explained as follows:

The Baltimore and Ohio Road now enters the city limits at Boundary street, between Ninth and Tenth streets northeast, crosses Boundary a few feet below grade; passing in a southwesterly direction across Ninth, Eighth, Seventh, Sixth, L, K, I, Fifth, Fourth, Third, and Second, several feet above the grade of each; follows Delaware avenue, on grade, as far as E street northeast, and thence, several feet below grade, across D street and North Capitol to the depot on New Jersey avenue.

This road breaks the grade of nearly every street it crosses within the city limits, and is a serious obstacle to the improvement of the northeastern section of the city. It effectually prevents the improvement of North Capitol street within less than two squares of the Capitol grounds. On the streets which it crosses at grade there is the ordinary danger from that source to the city traffic, and this upon such an important thoroughfare as Massachusetts avenue within a short distance of the Capitol.

The Metropolitan Branch of the same road enters the city limits at Boundary street, between First and Second northeast, and continues down First street, on grade, to Delaware avenue, where it unites with the Washington Branch. Down to this point it is open to the ordinary objections to steam railroads which occupy the greater part of a narrow street at grade, and cross the intersecting streets, also, at grade.

It is proposed to unite the two branches of this road at some point outside the city limits, to be selected by the company, and bring them into the city at Boundary street on the line of Twelfth street east, and on the established city grade.

Thence the road will follow the line of Twelfth street southward, on the grade of the street, to G street, at which point the grade changes so as to enter a tunnel at the north building line of Maryland avenue. Following the line of Twelfth street southward the tunnel continues to Lincoln Square, and passing beneath this square turns into the line of

North Carolina avenue, which it follows to the west building line of Second street east. At this point the city grades fall precipitously to the low grounds, and a short open cut connects the tunnel with an elevated road, which follows the same line of North Carolina avenue to the intersection of New Jersey avenue and E street southeast, crossing this intersection at an elevation of 22 feet above the street grade. Up to this point the line is intended for the exclusive use of the Baltimore and Ohio Railroad, and is designed for two tracks only.

The Baltimore and Potomac Railroad now enters the city limits at the Eastern Branch, between L and M streets south, crosses Fifteenth, Fourteenth, Thirteenth, and Twelfth streets, and thence, in tunnel, along the general line of Virginia avenue and K street south to the west building line of Sixth street, where it emerges upon the grade of K street, and follows the line of this street, conforming approximately to the street grades, to Canal street, thence along Canal street to Virginia avenue, along Virginia avenue to Maryland avenue, and along Maryland avenue to the Long Bridge, conforming to the street grades.

From the western terminus of the tunnel to the Long Bridge, this road is open to the ordinary objections to steam railroads which occupy the greater part of a narrow street at grade, and cross the intersecting streets also at grade. Where the line is upon the avenues there is plenty of space for the tracks and the street traffic also, but the objections incident to being on the street grade are in full force, and complaints are numerous that the avenues are made use of as freight depots, for making up trains, and loading or unloading freight. A change is quite as much needed here as in the case of the Baltimore and Ohio Railroad in the northeastern section of the city.

This road has its depot at Sixth street and Pennsylvania avenue, which is reached by branches from the main line on Virginia avenue and Maryland avenue, down the line of Sixth street, running across the mall and cutting off the Capitol from the Executive Mansion and public buildings. When the privilege of this location was granted to the company the mall east of Sixth street was unimproved, and the objection was not so obvious. At present this improvement is progressing by annual appropriations, and the presence of the depot and tracks is a serious and unsightly obstruction. These branch lines are open to the common objection of occupying the greater part of a narrow street at grade.

It is proposed to deflect this road, where it is in tunnel at Eighth street and Virginia avenue, northward, along the line of Eighth street, continuing in tunnel to E street south, thence along E street to the west building line of Third street southeast. At this point a short open cut connects with an elevated road, which continues on the line of E street to the intersection of New Jersey avenue, crossing at 22 feet above the street grade, coming up alongside the elevated road of the Baltimore and Ohio Railroad at the same elevation. Up to this point this line is intended for the exclusive use of the Baltimore and Potomac Railroad, and is designed for two tracks.

From this point a common line of road with four tracks continues to the Long Bridge, as follows:

An elevated road along the line of E street to Virginia avenue, crossing South Capitol, Delaware avenue, and First streets at a sufficient elevation above street grades. E street is to be widened to 160 feet by taking a narrow strip from Reservation seventeen. This will leave sufficient room for street traffic on either side the elevated road, and the latter will have suitable openings beneath it for the intersecting streets.

From the intersection of Virginia avenue and E street the elevated

road follows the line of Virginia avenue to a point between Four-and-a-half street and Sixth street southwest, where a short open cut following the same line connects it with a tunnel beginning at the east building line of Seventh street southwest. Street traffic on Four-and-a-half and Sixth streets may be diverted at Virginia avenue to Third and Seventh streets, respectively, one square each, along the line of the avenue, or these streets may be adapted to crossing the railroad by the use of a light iron bridge, and a short approach by ramp, as in similar cases in New York City and elsewhere. All other streets are crossed with sufficient headway under the elevated roads to pass under at their present grades.

From the east building line of Seventh street the tunnel continues along the line of Virginia avenue to Maryland avenue, thence along the line of Maryland avenue to the west building line of Twelfth street, where an open cut commences, following the same line of Maryland avenue to the east building line of Fourteenth street. Here it terminates in the street grade where the present causeway of the Long Bridge commences.

It is proposed to widen this causeway to 160 feet, and raise the grade uniformly out to the bridge abutment, which is to be 15 feet above tide. A roadway and foot-walk will continue on each side of the railroad tracks to within a suitable distance of the abutment, at the same grade, but upon nearing the abutment these roadways will be made to rise gradually above the grade of the tracks and meet upon an arched way above them. This will leave the lower chords of the bridge for the road-bed of the railways and the viaduct upon the upper chords of the bridge will carry the ordinary traffic of vehicles and foot passengers above the tracks.

A new bridge, to replace the Long Bridge, is indispensable. When the channel of the river is contracted to its proper width by the new water-front, scouring will inevitably take place around the piers of the present bridge, and the probability is that the first freshet thereafter would carry it off. It is not of proper construction for the use required of it in the future, and cannot properly accommodate two important railroads and the local vehicular traffic.

It is proposed to construct a new bridge upon the general plan here outlined of adequate strength and capacity, and with stone piers at intervals of about 250 feet, sunk to a solid foundation, if practicable to bed-rock, like the piers of the aqueduct bridge. Borings taken many years ago, indicate the probability of finding the rock at a reasonable depth, but are not conclusive as to this. A draw of sufficient size to accommodate the navigation of the river will be needed.

In order to afford the railroad companies an opportunity to negotiate freely for the purchase of sites for the new depots they require, it is thought best to leave to the companies, respectively, the selection of the site, as well as the option of combining in a union depot or erecting separate depots, imposing only the condition that the location and grade of such depot or depots shall be subject to the approval of the Commissioners of the District of Columbia.

After a careful consideration of various routes and plans for accomplishing the purposes here stated, I believe that the plan presented will give the most satisfactory results.

On the part of the District it presents the following advantages:

Two buildings for depots, which now obstruct the growth and improvement of the city, are to be abandoned.

Several miles of track now laid through the streets of the city, as if

through wild lands remote from human habitation, or running on grade across and along populous streets and avenues, are to be put under ground a sufficient depth to enable the street traffic to pass over them, or lifted sufficiently above the grade of the streets to enable the traffic to pass under them, maintaining the present grades of the streets. This is accomplished in the case of every street on the line of each road after its entrance into the city, except two (Four-and-a-half and Sixth), which can be especially provided for, and three others, (Second east, Thirteenth and Thirteenth-and-a-half west), which can be similarly provided for, should they ever require it. The two latter are short streets, only three squares in length, intersected by an open cut near their lower end. They will probably never need a crossing.

The advantage of this disposition of the railroads is not alone the security obtained for the ordinary city traffic. It effects as well a reclamation of the narrow streets, now wholly occupied by the tracks, and prevents the use of the streets as freight depots, or for any purpose other than through transit. The result will be a very great improvement in the value of real estate, now depreciated because of the present state of affairs.

The proposed lines follow, where in excavation, the course of a ridge upon which the surface flow of rain-fall naturally divides. The effect upon the drainage system of the city is therefore a minimum. There is very little interference with the sewers. At Maryland avenue it will be necessary to deflect a 3½-foot diameter sewer to G street, and along G to Fifteenth. The lower portion of the intercepted sewer then becomes available for the drainage of an additional area south of it, and nothing is lost by the change. No other sewers of any importance are intercepted.

The same peculiarity of following the ridge affords the advantage of very short open cuts, connecting the tunnel with the elevated road, the sudden descent of the surface grades at the end of the ridge favoring the transition. Thus the Baltimore and Ohio railroad crosses the line of Second street east, in tunnel, and crosses First street and New Jersey avenue, only one square distant, by elevated road at 22 feet above the grade of New Jersey avenue. The Baltimore and Potomac Railroad crosses the line of Third street east, in tunnel, passes one square above the terminus of Second street and crosses New Jersey avenue, also 22 feet above grade. This prevents interference with the travel of any intersecting street.

The surplus excavation, which will be quite a large amount, will be used for filling Delaware avenue and other streets in the vicinity of the Capitol which cross the line of the old canal and for reclaiming the Potomac flats in the vicinity of the present Long Bridge.

The route proposed appears to offer a number of advantages to the railroad companies.

The right of way is given, throughout, on the line of public streets and avenues.

The lines are short and direct, with easy curves.

On the line of the Baltimore and Potomac Railroad, the maximum cut is 35 feet, and the line is a short one. On the line of the Baltimore and Ohio Railroad, the maximum cut is 35 feet, and on the combined line from New Jersey avenue westward it is only 20 feet. All tunnels will, therefore, be built in open cut, with very little danger of any trouble whatever from underground springs. The material excavated will be a strong clay, with some gravel and perhaps sand. No rock excavation is probable.

This work will present much less difficulty than does the boundary sewer now in course of construction. There the maximum cut is 45 feet, and water is found at a depth of 30 feet, in considerable quantities, with sand and gravel that wash out rapidly from beneath the overlying clay, bringing down the side banks into the excavation.

The shallow cut makes it practicable in the construction of the tunnels to provide readily for unlimited ventilation.

The grades are sufficiently easy, the maximum being 53 feet per mile, much less than has heretofore been found practicable in this class of construction; the ground being exceptionally favorable.

The Baltimore and Ohio Railroad has the longest and most expensive independent line to run, besides providing for connections outside the city limits. The connections of the Baltimore and Potomac Railroad remain as they are now. On the other hand, the Baltimore and Ohio Railroad acquires a valuable franchise in the crossing of the Potomac on the line of the Long Bridge.

Plans of the proposed improvement are transmitted herewith, and detailed estimates have been prepared under my direction, the computations being made by Mr. George H. Bailey and Mr. John F. Alexander.

The following is a summary :

For the Baltimore and Ohio Railroad (construction for two tracks):	
Open cut on Twelfth street northeast, from south building line of G street to north building line of Maryland avenue, 431.41 linear feet, at \$61.75.....	\$25, 839 56
Brick tunnel under Twelfth street northeast, Lincoln square, and North Carolina avenue, from north building line of Maryland avenue to west building line of Eleventh street southeast, 3,253 linear feet, at \$296.63.....	314, 337 39
Sunken road, protected by parapet walls and iron railing, with beam-tunnel crossings at intersecting streets, on North Carolina avenue, from west building line of Eleventh street southeast to west building line of Second street southeast, 2,988 linear feet of sunken road, at \$131.15.....	391, 876 20
810 linear feet crossings, at \$198.07.....	160, 436 70
Open cut from west building line of Second street southeast to beginning of elevated road, 405 linear feet, at \$61.75.....	25, 008 75
Elevated road (viaduct) on North Carolina avenue and E street south to New Jersey avenue, 520 linear feet, at \$81.50.....	42, 380 00
Total for Baltimore and Ohio independent line.....	959, 878 60
For the Baltimore and Potomac Railroad (construction for two tracks):	
Brick tunnel from the intersection of Eighth street and Virginia avenue southeast, under Eighth street and E street, to west building line of Third street southeast, 3,281.83 linear feet, at \$96.63.....	317, 133 13
Open cut on E street from west building line of Third street southeast, to beginning of elevated road, 604.41 linear feet, at \$61.75.....	37, 322 32
Elevated road (viaduct) on E street to New Jersey avenue, 625 linear feet, at \$81.50.....	50, 937 50
Total for Baltimore and Potomac independent line.....	405, 393 95
For the combined roads west of New Jersey avenue (construction for four tracks):	
Elevated road (viaduct) on E street, south and Virginia avenue to a point between Four-and-a-half and Sixth streets, southwest, 3,403 linear feet, at \$146.25.....	497, 688 75
Open cut, connecting elevated road with sunken road and beam tunnel at east building line of Seventh street southwest, on Virginia avenue, 1,972 linear feet, at \$75.61.....	81, 053 92
Sunken road protected by parapet walls and iron railing with beam-tunnel crossings at intersecting streets on Virginia avenue and Maryland avenue from east building line of Seventh street, southwest, to west building line of Twelfth street, southwest, 1,393.15 linear feet, sunken road, at \$136.....	189, 468 40

218 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

551.5 linear feet crossings, at \$276.85	\$153,783 77
Open cut on Maryland avenue from west building line Twelfth street, southwest, to Fourteenth street, southwest, 1,171.23 linear feet, at \$75.61	78,556 70
Total for the combined roads west of New Jersey avenue	<u>1,000,551 54</u>

SUMMARY.

Independent line Baltimore and Ohio to New Jersey avenue	959,878 60
Independent line Baltimore and Potomac to New Jersey avenue	405,393 95
Combined line west of New Jersey avenue	<u>1,000,551 54</u>
Grand total	*2,365,824 09

The first two items would, perhaps, suffice for the present, adding the cost of a temporary wooden trestle from New Jersey avenue to Four-and-a-half street, and reserving the more expensive construction of the viaduct until it shall be considered necessary to put the roads under ground west of Four-and-a-half street. The beam tunnels might for the present be omitted and temporary wooden bridges be substituted for them.

The grand total represents a considerable expenditure, but the cost may be urged as an objection to any plan for changing the present location of the tracks, and would be urged with much greater force against any other line than the one selected if it served the purposes intended in this one. No temporizing scheme should be considered at all. It is better to let the tracks remain as they are than shift the nuisance to other localities, only to be shifted again. That the present plan is an economical one appears in this, that it serves the purposes intended at a minimum of cost.

The Fourth avenue improvement in New York City, designed to accomplish precisely the same results, has recently been completed. The length of the line differs but little from that of the one here proposed, yet the cost was about \$6,000,000. It was economically constructed under thoroughly competent and careful management. The lesser cost of the proposed route through Washington is due to the natural advantages of the line selected.

As the cost of the bridge will depend largely upon the depth to which the piers must be sunk to reach a solid foundation, and this has not yet been ascertained, no estimate is given for this. The building of the causeway, having side slopes of earth, will constitute a part of the reclamation of the flats over which it will extend, and will be made from the surplus excavation for the tunnel. The small amount of masonry required for joining the side roads over the tracks at the commencement of the viaduct will rest on piles to be driven before the filling begins.

I am indebted to Mr. Allen Campbell, formerly commissioner of public works, and now comptroller of New York City, for the detailed plans of the Fourth avenue improvement recently completed in New York. These have been carefully studied in connection with the proposed improvement here.

Very respectfully,

R. L. HOXIE,
Lieutenant Engineers, U. S. A.

Maj. W. J. TWINING,
Corps of Engineers, U. S. A.,
Engineer Commissioner, D. C.

*To this will be added a small amount for land damages, depending upon the radius which may be assumed at the curve at Eighth and E streets, southeast; also the cost of widening E street opposite squares 736 and 641, if deemed advisable.

B.—REPORT OF LIEUT. F. V. GREENE, CORPS OF ENGINEERS, U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, September 30, 1881.

MAJOR: I have the honor to submit the following report concerning the streets and roads of the District of Columbia for the fiscal year ending June 30, 1881:

The nature of the work performed is shown in the following statement:

Summary statement of operations and estimates.

No.	Description.	Expended 1880-'81.	Appropriated 1881-'82.	Estimated 1882-'83.
1	Replacement of pavements and improvements of streets and avenues.....	\$299,391 90	\$300,000 00	\$400,000 00
2	Repairs to concrete pavements.....	54,320 95	50,000 00	50,000 00
3	Material for permit work.....	19,724 66	20,000 00	20,000 00
4	Repairs to bridges.....	5,991 12	5,000 00	15,000 00
5	Repairs to macadam roadways.....	14,999 25	5,000 00	5,000 00
6	Current repairs of streets, avenues, and alleys.....	32,164 72	20,000 00	30,000 00
7	Repairs of county roads.....	14,568 20	20,000 00	25,000 00
8	Division of streets, alleys, and county roads office.....	5,600 00	5,600 00	5,600 00
9	Cleaning streets.....	33,124 86	30,000 00	33,000 00
10	Cleaning alleys.....	6,484 90	6,500 00	7,500 00
11	Lighting streets.....	117,231 69	103,325 00	106,250 00
12	Repairs of lamps.....	999 46		
13	Erection of lamps.....	13,219 23	1,000 00	1,000 00
14	Compensation of superintendent of lamps.....	900 00	900 00	900 00
15	Parking commission.....	15,280 06	19,900 00	20,000 00
16	Improving grounds south of Capitol.....	20,000 00		
17	Continuation of survey of the District with reference to the extension of various avenues to District line.....	5,000 00	5,000 00	20,000 00
Total.....		649,001 00	587,725 00	739,250 00

* The appropriation for this purpose was \$75,000. The balance of \$20,679.05 will be expended under contracts made in June, 1881, and not yet completed.
† Includes materials for sewers laid under permit.
‡ Expended on M street bridge.
§ Expended on Seventh street road.
|| Includes \$1,898.29 for erecting and lighting lamps in alleys under the appropriation of \$2,000 for that purpose.

PAVEMENTS.

The condition of the streets on the 1st of July last was as follows:

Nature of pavement.	Square yards.	Miles.
Concrete (asphalt and coal tar).....	1,077,238	44.92
Stone block.....	446,089	16.18
Rough stone.....	550,456	17.70
Macadam.....	215,330	7.45
Gravel.....	663,455	32.25
Wood.....	380,685	16.70
Total improved.....	3,333,252	135.20
Unimproved.....	1,782,445	95.00

The most important work executed on the streets since the establishment of the present form of government, in 1878, has been the gradual replacement of the worthless wooden pavements. The amount of this

pavement still remaining at various dates since the present Commissioners came into office is as follows:

	Miles.	S q u a r e yards.
July 1, 1878	34	790, 000
July 1, 1879	27. 2	626, 742
July 1, 1880	22. 1	509, 481
July 1, 1881	16. 7	380, 685

Of the amount last given about 38,000 square yards have been temporarily repaired with gravel, 65,000 yards are included in contracts made since July 1, 1881, and nearly completed, and about 30,000 yards can be replaced with the balance of the present appropriation. There will therefore be on the 1st of next July about 10 miles of streets, containing nearly 250,000 square yards of wooden pavements nearly, if not quite, impassable and dangerous. Although a great many of the principal thoroughfares have now been properly paved, yet many important streets are included in these 10 miles, such as portions of New Jersey, Massachusetts, Pennsylvania, New Hampshire, Rhode Island, and Maryland avenues, and of Fourteenth, Ninth, and P streets. The proper paving of these and other streets now covered with fragments of wood exceeds in importance all other work on the streets, and it is hoped that as much of the current revenues of the next fiscal year as can possibly be spared, after the ordinary expenses of the city are provided for, will be appropriated for this work.

As stated in previous annual reports, all pavements laid since 1878 in this city have been of certain standard descriptions, to wit: a pavement of asphaltic concrete laid on a foundation of hydraulic cement concrete, for streets of moderate grade and uniformly distributed travel; and a pavement of granite blocks laid on a foundation of well-rolled gravel and sand, and cemented with tar and gravel in the joints, for streets of confined travel or steep grades. In addition, one or two squares have been paved each year with compressed asphalt blocks; a lack of certainty as to the durability of this pavement having prevented its use in larger quantities.

The qualities of these different pavements were discussed at length in the last annual report, and it is not necessary to again describe them. Certain minor changes have been made as the result of a large practical experience, but in general terms the character of the pavements has not been altered since 1878. The principal of these minor changes consist in laying granite blocks in the gutters where the stamping of horses in wet weather destroys the asphaltic concrete, in paving the entire strip of two feet next to railroad tracks (which is paid for and maintained by the railroad companies) in granite blocks, and in purchasing all granite blocks in advance, so as to secure a rigid inspection of them.

In regard to the cost, the lowest figures were reached in 1879, when a very large amount of asphalt pavement was laid at \$1.47 per square yard. Since that date the price of this pavement has risen to \$1.85, and finally to \$2.07 per yard. In granite pavements the price ruled at about \$2.12 per yard in 1878, and gradually fell to \$1.78 in 1880; it has since risen again, and at present costs about \$2.28 per yard. The asphalt block pavement has varied in price from \$2.37 to \$1.76 per yard. Present contracts make the cost of this pavement about \$1.85 per yard.

The exact amount and cost of all pavements laid in replacement of

wood during the past three years is shown in the following statement. The cost includes setting curb and every other incidental expense, except salaries of district inspectors, which amount to about \$5,000 per year:

Replacement of wood pavements.

Years.	With asphalt.		With granite.		With asphalt block.		Total.	
	Square yards.	Cost.	Square yards.	Cost.	Square yards.	Cost.	Square yards.	Cost.
1878 and 1879....	104,022.52	\$200,900 18	56,993.24	\$129,657 32	1,093.35	\$2 661 61	162,109.11	\$333,219 11
1879 and 1880....	67,962.91	104,143 17	45,084.28	87,390 42	3,214.08	6,349 51	116,261.27	197,883 10
1880 and 1881....	75,469.32	146,291 70	47,742.67	103,678 86	.....	.....	123,211.99	249,970 56
Total.....	247,454.75	451,335 05	149,820.19	320,726 60	4,307.43	9,011 12	401,582.37	781,072 77

On all pavements laid since 1878 the repairs for a period of five years are made at the contractor's expense. On the pavements laid prior to that date the repairs are made by the District. The most important of these are the repairs to the concrete pavements (principally of coal tar), which make up a length of about 30 miles. Under the system which has been gradually established these pavements are kept in thorough repair at all times. The minor repairs and patching are made under a contract let each fiscal year for that class of work. Under this contract skilled laborers are kept at work on some portion of these pavements during a portion of every month in the year except during the winter. The total amount of work executed during the past year was 28,580.70 square yards of repairs, costing \$23,861.27.

In this manner small holes are repaired before they become serious, and the surface is kept in good order. When finally the surface is so worn out that small repairs are no longer sufficient, then the street is resurfaced with a coating of asphaltic concrete similar to that used in new asphalt pavements. The following streets were thus resurfaced last year, viz:

	Square yards.	Cost.
G street southwest, from Four-and-a-half to Eleventh streets.....	10,802.22	\$16,830 48
O street northwest, from Eighth to Thirteenth streets.....	4,774.70	7,638 40

Contracts were also made in May last for resurfacing portions of Pennsylvania avenue, Vermont avenue, F and H streets, amounting to 25,000 yards in all, but owing to the failure of the contractors, the work has not yet been executed.

The annual cost of maintaining all the concrete pavements in the District averaged 8½ cents per square yard for the seven years previous to 1880. For the last year the cost (including contracts not yet completed) was about 9 cents per yard. If constantly attended to in the manner above described, the surfaces can be kept in good order at small expense, and they then give great satisfaction. An appropriation of not less than \$50,000 should be made for this purpose for the next year.

The *rough stone pavements* are, as a general rule, in bad order. It is an inferior kind of pavement, and the limited appropriation made annually for miscellaneous work under the superintendent of repairs is entirely inadequate to keep them in proper order.

The *macadam pavements* have greatly deteriorated during the six years in which hardly any repairs have been made to them. The pavement on Four-and-a-half street is so completely worn out that a portion of it is now being replaced with granite blocks. The rest of the street will be repaired from the appropriation of \$5,000 made at the last session of Congress for the repair of macadam roadways. A small amount of work, greatly needed, can also be executed with this appropriation on other macadam streets. A similar appropriation should be made for next year.

The *graveled streets* are, as a general rule, in localities where there is not a great deal of travel; they are kept in as good order as is possible with the small appropriation for miscellaneous repairs.

OTHER IMPROVEMENTS.

Of the appropriation of \$300,000 for paving and improving streets, five-sixths of the whole amount was expended in replacing the wood. The remaining \$50,000 was expended as follows:

E street southwest, from Four-and-a-half to Seventh street, grading and laying asphalt pavement.....	\$9,672 43
H street southwest, from Four-and-a-half to Seventh street, grading and laying asphalt pavement.....	10,128 06
Water street southwest, from Twelfth to Thirteen-and-a-half street, laying stone pavement.....	4,825 69
H street northwest, from Fifteen-and-a-half to Sixteen-and-a-half street, replacing rubble pavement.....	7,661 03
I street northwest, from Seventeenth to Eighteenth streets, replacing rubble pavement.....	7,428 09
U street northwest, from Fourteenth to Sixteenth streets, grading, graveling, and sidewalks.....	3,645 24
Fifth street northeast, from D to K, grading and graveling.....	4,213 88
Eighteenth street northwest, from P to S, grading.....	2,034 99
New York avenue, from North Capitol street to Boundary, grading.....	344 37
Total.....	49,953 78

In addition to the above, various streets were improved in front of private property, by parties interested therein, under the permit system, the District furnishing the materials, such as curb, bricks, &c. The total length of these improvements was 11,241 feet or 2.1 miles, and the cost of the materials furnished by the District was \$11,236.63. Portions of various alleys, amounting in all to 1,143 square yards were also paved under the same system.

The filling of the old canal was continued last winter under the special appropriation of \$20,000 made by the United States for that purpose. This work has been carried on each winter for the past three years under special appropriations, accomplishing the double purpose of providing employment for worthy poor during the season when all other work is suspended and of abating the nuisance created by the old canal. The work has now progressed as far as L street, south, a distance of 2,111 feet from the starting point, and has resulted in reclaiming 11½ acres of land to the United States. As a necessary incident to the work, 1,652 feet of sewers have been built to provide for the sewerage which formerly emptied into the canal. There only remains a portion, about 1,000 feet in length, unfilled, at the outer extremity of the canal; which could be completed by a similar appropriation during the coming winter.

CURRENT WORK OF REPAIRS OF STREETS AND ALLEYS.

There are 25 miles of stone pavements, 35 miles of graveled streets, 43 miles of paved alleys, and 260 miles of brick sidewalks—for the ordinary and current repairs of which no special provision is made, except in one general appropriation for current repairs. The estimate submitted for this purpose last year was \$30,000, but the appropriation made for the current year was only \$20,000. This sum is totally inadequate to perform the large amount of work of this character absolutely necessary in the course of the year, and it will be impossible to prevent some of the cobble and gravel streets from getting into very bad order after the rains of next spring. Thirty thousand dollars is the least sum for which this work can be done. It cost \$33,412.46 in 1879-'80, and \$32,164.72 in 1880-'81. The nature of the work performed last year is shown in the statement of the superintendent of repairs (Appendix, Table E). It included 29,700 square yards of cobble-stone laid or relaid, 14,400 feet of gutter stone relaid, 2,560 feet of curb reset, 5,000 square yards of brick sidewalks relaid, 65,000 yards of graveling roadways, and 30 receiving basins built under pumps and hydrants to carry the drippings into the nearest sewer. After every rain large numbers of dangerous holes are reported by the police, and these must be promptly repaired in order to prevent accident. The present force of overseers (and many of the laborers) employed under the superintendent of repairs have been selected from among the employees of several years past, and they are thoroughly efficient and familiar with their duties, and the work performed under them usually costs less than similar work executed under contract, and it is much better done. It is hoped that the importance of this class of work will be recognized at the next session of Congress by making a sufficient appropriation for it.

In regard to the sidewalks, the old municipal ordinance of 1853 required the owners or tenants of property to keep the sidewalks in their front in proper repair; and provided, in the event of their failure to comply with the ordinance, for the performance of the work by public officers, and the assessment of the cost against the property. While this ordinance has never been specifically repealed, the attorney has advised the Commissioners that it is no longer in force and that the sidewalks must be repaired in the same manner as the roadways, *i. e.*, at the expense of the general public. About 95 per cent. of our sidewalks are paved with bricks, a pavement which has little to recommend it, except its cheapness. Of the whole 260 miles of this pavement at least one-tenth is in very bad order. It is a question, however, whether its repair is of as much importance to the city at large as the replacement of the wood pavement on the carriage-ways. In case it should be determined to do any of this work, I have submitted an estimate for repaving the sidewalks of both sides of Pennsylvania avenue from the Capitol to the Treasury, with a permanent pavement of blue stone flagging, or of Portland cement-stone, such as has been largely used in the Capitol grounds and elsewhere. The cost of this work is estimated at not less than \$50,000. Should it be done, a portion of the bricks obtained from that avenue could be used to make temporary repairs elsewhere.

STREET CLEANING.

The paved streets are swept by contract, running for three years (subject to annual appropriations) from July 1, 1880, at the rate of 23½ cents per 1,000 square yards actually swept and cleaned. Of these

streets about 4 per cent. are cleaned daily; 6 per cent. twice per week; 50 per cent. once per week; and 40 per cent. once in two weeks; the streets on which there is most travel being cleaned most frequently. The total amount cleaned during the past year was 110,535,160 square yards, costing \$26,252.10. The contractor uses sweeping-machines with revolving brooms.

The unpaved streets are cleaned from time to time by day's labor, under the superintendent of repairs, \$2,029.45 having been expended for this purpose last year. The unusually heavy fall of snow during the past winter necessitated a considerable expense for leveling snowbanks, cleaning crosswalks, and removing ice from the roadways. The ice was broken up by large scrapers supplied by the contractor for street cleaning, and he was paid the actual cost of this work, amounting to \$254.07. The balance of the work necessary for removing the snow and ice was performed by day's labor under the superintendent of repairs, at an expense of \$2,819.37.

The total expenses for street cleaning were then as follows:

Cleaning paved streets.....	\$26, 252 10
Cleaning unpaved streets.....	2, 029 45
Removing snow and ice.....	3, 063 44
Sprinkling macadam streets	499 42
Total.....	31, 844 41

In addition to salaries of inspectors, amounting to \$1,280.45.

For the present year the appropriation is only \$30,000, and as many streets have been repaved during the past and present year and require more frequent cleaning, it is probable that this appropriation will be insufficient to carry the present schedule of cleaning during the year, and in the spring the streets will have to be cleaned less frequently. For the next year the appropriation should be restored to \$33,000.

ALLEY CLEANING.

The alleys are cleaned at present on the same system, paved alleys by contract at 31 cents per 1,000 square yards for each cleaning, and unpaved alleys by day's labor. During the past year the alleys were cleaned by contract for a fixed sum of \$4,275. The alleys are cleaned once a week during the summer months, and once in two weeks during the winter.

STREET LIGHTING.

The streets are lighted by the Washington and the Georgetown gas companies, under contracts with these companies at so much per lamp per annum. The rate last year was \$28.70 in Washington, and \$32 in Georgetown. The price was reduced by act of Congress, to take effect July 1, 1881, to \$25 per lamp, including all expenses of repairs, lighting, &c. Hitherto the District has paid for extraordinary repairs, such as the destruction of the lantern by storms, &c. The lamps are erected by the District, and cost, at present contract rates for iron castings, about \$21 each. On the 1st of July last there were, on the streets and alleys of the two cities, 4,202 lamps; 162 having been erected during the past year. With the appropriation of \$1,000 for erection of lamps during the present year, about 48 lamps will be erected; so that there will be 4,250 lamps to be lighted next year; at \$25 each, the total cost will be \$106,250. During the past year the cost of street lighting was \$117,231.69, and during the present year the appropriation was \$103,325.

The act of June 4, 1880, appropriated \$2,000 for erecting and lighting lamps in alleys. Under this appropriation 75 lamps were erected in the alleys, where they are of great service to the police in following criminals.

COUNTY ROADS.

The principal work done in the county during the past year was the thorough repair of Seventh street road, which is the main entrance to the city from the north. This work began at Boundary street; and for a distance of 1,437 feet the entire road-bed was picked up and relaid with macadam, the curbs set, and sidewalks repaired. Beyond this point the road was repaired by picking up the old macadam, rebreaking it, and adding fresh metal in the central portion of the road 18 feet wide, and in graveling the road on each side of the macadam. The work was done in the most thorough manner, by day's labor. It was stopped by bad weather in the latter part of November, at which time the work had progressed as far as Summy's Hill, a distance of 9,287 feet. The cost of this (including an accumulation of macadam metal for further work) exhausted the appropriation of \$15,000 made for that special purpose. This year the work was resumed on July 5, and continued until September 29, at which date it had progressed as far as the foot of the hill leading to Brightwood, a distance of 4,730 feet from the point of beginning. No special appropriation having been made for this year, the cost (amounting to \$7,750) was paid from the appropriation for general repair of county roads. Next summer the work can be completed as far as Brightwood.

No new roads were constructed during the past year. The ordinary repairs of the roads (about 100 miles in length) other than Seventh street were made from time to time as required, at a total cost of \$17,268.20, or \$172 per mile. Most of the roads are now in fair condition; and in repairing them an effort is made, as far as the funds will permit, to make the repairs of a permanent character by substituting broken stone (gathered and broken during the winter) for the ordinary bank gravel, which contains so large a proportion of clay and earthy matter; and in repairing small culverts and drains stone masonry is used in place of wooden abutments.

During the present year the appropriation is \$20,000, which is only two-thirds of the estimate submitted as necessary for this purpose. Owing to the large expenditure for the Seventh street road there will remain only about \$12,250 for the other roads. This amount is not sufficient, and in the spring the roads will probably deteriorate to some extent. For the next year the appropriation should be not less than \$25,000, in order to carry on the work on Seventh street road and keep the other roads in proper repair.

SURVEY OF THE DISTRICT.

The careful survey of the District, made by the Coast Survey, the District paying the current expenses, which was begun in July, 1880, has now progressed so far that the triangulation is complete and the topography of sheet No. 1, embracing an area of about eight square miles, will be completed during the month of October. The field work costs the District about \$700 per mile; and the territory adjacent to the city, of which maps are now urgently needed, embraces about 35 square miles. The appropriation for the current year is \$5,000, but in order to prosecute the work more rapidly a larger appropriation will be necessary.

The object of this survey is to obtain accurate maps of a scale sufficiently large to make proper plans for the extension of the streets and avenues in the rapidly growing portion of the county just north of the city. The streets hitherto laid out in that section do not conform to each other or to the general plan of the city, and an alteration in their lines will be demanded as soon as they are thickly built upon. It is very important that this error should be avoided in streets to be laid out hereafter.

ESTIMATES FOR THE COMPLETION OF STREETS.

The act establishing the present form of government requires the Commissioners to transmit annually to Congress estimates of the amount necessary to defray the expenses for the next fiscal year; and among these estimates "a statement showing in detail the work proposed to be undertaken by them during the fiscal year next ensuing, and the estimated cost thereof." The act further provides that after Congress approves these estimates it shall appropriate the amount of one-half thereof, and that the other half shall be raised by a certain uniform tax upon taxable property and privileges.

There being no provision for assessing any portion whatever of the cost of street improvements upon the abutting property, petitions immediately came in in large numbers praying for improvements of every character. The number of these petitions presented during the last three years and now on file in this office amounts to 726, and they include nearly every street in the city. As previously stated, however, the Commissioners limited their work on the streets mainly to replacing worthless wooden pavements, which alone has absorbed all the revenues available for street work; and hence the greater part of these petitions have not been acted upon.

In order to prepare a basis on which to make the estimates and statement of work above referred to, I have carefully examined the condition of every street within the limits of the two cities, excluding the unsettled portions east of Lincoln Park, south of N street south, and between the White Lot and the Observatory. The necessary measurements have been made and the estimate calculated in detail of the cost at present prices of putting all the streets in proper order, as petitioned for. This schedule is submitted herewith (Appendix, Table C), together with a map showing the present condition of the streets and the improvements needed. It comprises work on 173 streets or parts of streets in the city, in addition to the suburban streets just outside the city limits.

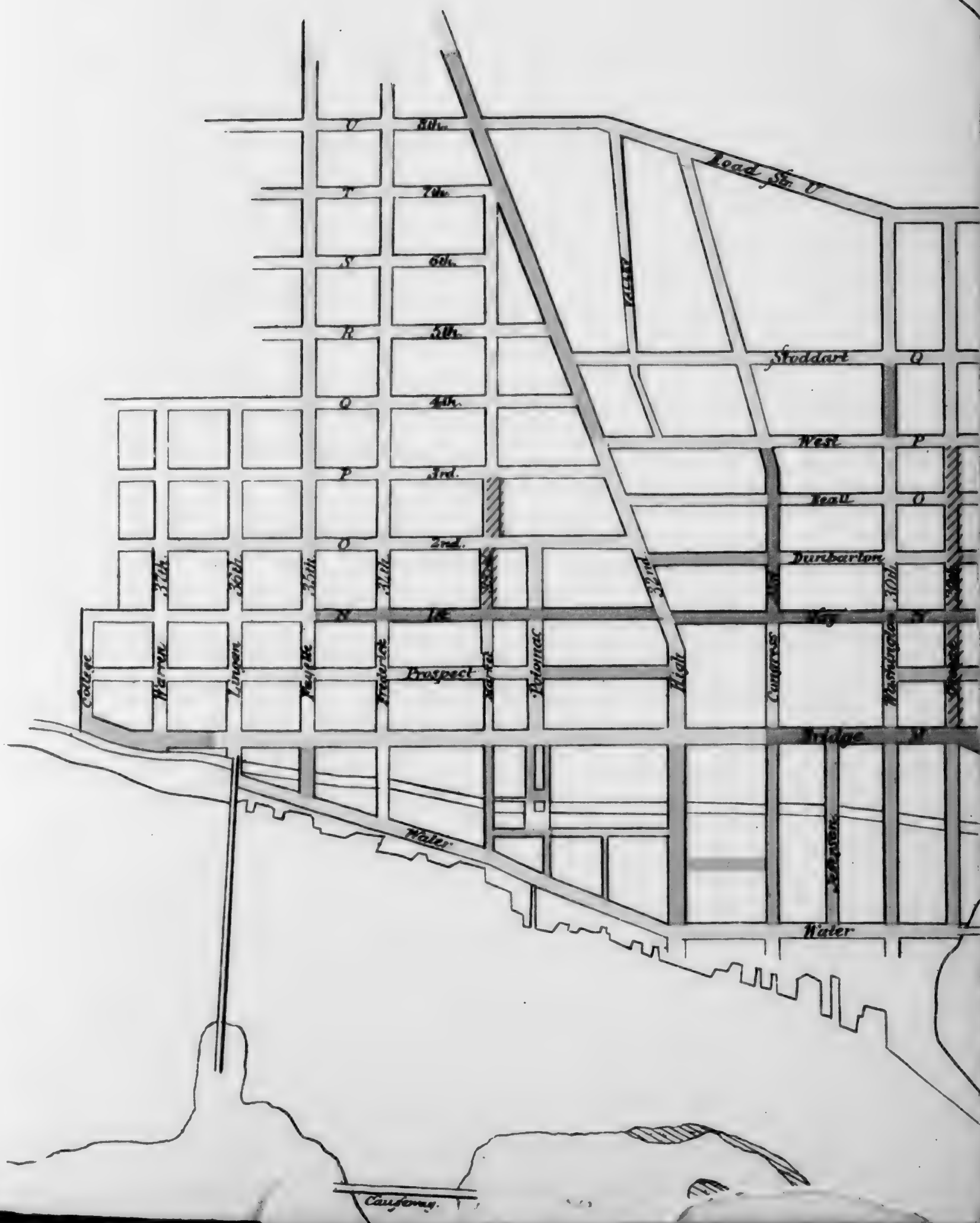
The most important work is the replacement of wood pavements, amounting to 294,757 square yards, and estimated to cost \$633,627.55.

Next in importance is the replacement of a portion of the rough and unsuitable cobble or blue rock pavements in the heart of the city—such as 4½, 6th, 10th, and 14th streets adjacent to Pennsylvania avenue. The amount of this work is 99,713 square yards, estimated to cost \$259,847.15.

Next in order is the replacement of the macadam, where it was left unfinished or improperly laid prior to 1875. New York avenue, east of 5th street, 11th street southeast, and the western portion of I street are samples of this. The whole amount is 80,939 square yards, estimated to cost \$174,018.85.

All of this work is replacement of pavements already laid, but now worn out or unserviceable.

Of new work there is required a certain amount of paving on streets



of heavy travel, such as Virginia avenue, F and H streets south, and Vermont avenue, Q, and other streets north. The total amount is 118,000 square yards, estimated to cost (with grading and sidewalks) \$305,522.10. Less important streets are estimated for a gravel roadway, together with curbs, gutters, and sidewalks. The number of streets partly built upon but wholly unimproved is very large, amounting to 985,188 square yards, and the estimated cost of improvement is \$963,919.80.

I have also estimated for relaying the sidewalks on Pennsylvania avenue, \$51,397.20, and for grading and graveling the streets of recorded subdivisions adjacent to the city, \$194,230.

The grand total of cost of these improvements is \$2,582,562.65. This is the work for which petitions are on file, and which is necessary to complete the streets of the city and its suburbs. It is apparent at a glance that its cost far exceeds the amount of revenue which can be devoted to the streets for several years. With an annual appropriation of \$300,000 (as for the past three years) it will be more than eight years before this work can be completed. If a law were passed by which abutting property could be made to bear some portion of the cost of street improvements by which its value is immensely enhanced, much more work could be done in each year; and the readiness of property-holders to share the expense would assist the Commissioners in selecting what work is to be done from among the immense quantity asked for. Without such assessments the general revenues cannot replace the balance of wood pavements alone in less than two years.

I respectfully submit this schedule to your judgment in order that you may select the work to be executed during the next fiscal year.

Very respectfully, your obedient servant,

F. V. GREENE,
First-Lieutenant, Engineers.

Maj. W. J. TWINING,
Corps of Engineers, U. S. A.,
Engineer Commissioner D. C.

APPENDIX X 1.

REPORT OF THE CHIEF CLERK, ENGINEER DEPARTMENT.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, September 30, 1881.

MAJOR: I have the honor to submit the following report of work performed by the clerical force of this department during the fiscal year ending June 30, 1881:

Number of communications received, briefed, and recorded in letters received.. 4, 538

Upon these, 6,038 indorsements have been made and 1,918 reports submitted.

Number of orders and letters written..... 2, 763

Number of copies of contracts drawn and recorded..... 255

Number of permits (gas, sewer, water, and miscellaneous) issued..... 2, 537

Number of vouchers prepared and forwarded 708

Number of bills prepared and forwarded..... 2, 088

Number of special assessments revised..... 143

A consolidated summary statement of the operations of the department, showing the expenditures for the past fiscal year and the estimates for the ensuing fiscal year, is submitted.

The accompanying tabulated statement shows the condition of the revenues and expenditures of the several public markets during the time covered by this report.

The Northern Market, formerly upon square No. 446, was abolished by the Commissioners on July 1, 1881, and the ground of that square devoted to school purposes.

The administration of the affairs of the several markets is very good, and they are in a prosperous condition.

The act of Congress "providing for the settlement of all outstanding claims against the District of Columbia, and conferring jurisdiction on the Court of Claims to hear the same," has thrown upon this department a large amount of work without making any provisions whatever to meet the demand. The suits brought against the District under the provisions of this act arose on account of claims based upon contracts with the old levy court; out of contracts made by the late board of public works, and extensions thereof made by the Commissioners of the District since June 20, 1874, and all claims for work done by the direction of the Commissioners, and accepted by them prior to March 14, 1876.

A majority of the suits brought are for claims arising out of contracts with the late board of public works, and almost in every such case the claimant makes a call through the Court of Claims for all papers among the records of this department which relate in any degree to his case, while in others specific papers are wanted. In many cases two and three calls are made. In every suit filed the Attorney-General, whose duty it is to make the defense, calls for a complete history of each case. In answering the first and last class of cases a long, laborious search of the records of the late board of public works is carefully made and the data relating to each case collated, while in the second class of cases less time and labor is consumed.

A large amount of work has been performed in the department which cannot well be enumerated, but requires a great deal of care, attention, and time.

To meet the demands of the Court of Claims and maintain the large amount of current routine work of the department during the busy season, has entailed upon the force extra exertions.

The work of the department is well in hand, and the records in a good state of preservation.

Very respectfully, your obedient servant,

JOSEPH C. ROCK,
Chief Clerk.

Maj. WM. J. TWINING,
Corps of Engineers, U. S. A.,
Engineer Commissioner D. C.

Consolidated summary statement of operations and estimates.

Description.	Expenditures to June 30, 1881.	Estimated for 1882-'83.
Engineer department:		
Salaries.....	\$28,806 35	\$28,510 00
Temporary writers and draughtsmen.....		1,500 00
Contingent expenses.....	4,973 59	5,000 00
Water department:		
Office and contingent expenses.....	140,738 74	14,139 00
Employés, fuel, material, &c., for high service.....		16,718 75

Consolidated summary of operations and estimates—Continued.

Description.	Expenditures to June 30, 1881.	Estimated for 18 2-'83.
Water department—Continued.		
Pipe distribution, to high and low service, and laying new mains		\$35,582 75
Interest and sinking fund on water-stock bonds		44,610 00
Cleaning and repairing lateral sewers and basins	\$15,416 38	30,000 00
Lateral sewers, construction of	14,900 00	30,000 00
Boundary-street sewer	* 79,286 40	100,000 00
Auxiliary sewer in Rock Creek district		70,000 00
Public hay-scales	52 90	500 00
Dredging James Creek Canal		5,000 00
Markets:		
Compensation of market-masters	4,930 32	5,400 00
Contingent expenses	4,447 16	1,500 00
Cleaning tidal sewers	2,962 31	3,000 00
Material for permit work:		
Sewers	6,220 56	10,000 00
Surface	13,504 10	20,000 00
Division of sewers and drains		2,460 00
New York avenue sewer and outlet	28,000 00	
Dredging channel across flats and completing canal outlet	8,443 14	
Pumps	2,997 83	3,500 00
Replacement of pavements and improvements of streets and avenues	299,391 90	400,000 00
Repairs to concrete pavements	† 54,320 95	50,000 00
Repairs to bridges	‡ 5,991 12	15,000 00
Repairs to macadam roadways	§ 14,999 25	5,000 00
Current repairs of streets, avenues, and alleys	32,164 72	30,000 00
Repairs of county roads	14,568 20	25,000 00
Division of streets, alleys, and county roads office	5,600 00	5,600 00
Cleaning streets	33,124 86	33,000 00
Cleaning alleys	6,484 90	7,500 00
Lighting streets	117,231 69	106,250 00
Repairs of lamps	999 46	
Erection of lamps .....	|| 3,219 23	1,000 00
Compensation of superintendent of lamps	900 00	900 00
Parking commission	15,280 06	20,000 00
Improving grounds south of the Capitol	20,000 00	
Continuation of survey of the District with reference to extension of various avenues to District line.	5,000 00	20,000 00
Total	984,956 12	1,146,670 50

* \$69,295.09 charged to appropriations for 1878-'79, and 1879-'80.

† The appropriation for this purpose was \$75,000. The balance of \$20,679.05 will be expended under contracts made in June, 1881, and not yet completed.

‡ Expended on M-street bridge. § Expended on Seventh-street road.

|| Includes \$1 898.29 for erecting and lighting lamps in alleys, under the appropriation of \$2,000 for that purpose.

Summary statement of various District markets, 1880-'81.

Class of stall.	Northern mar- ket.		Eastern mar- ket.		Western mar- ket.		Georgetown market.	
	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.
Butcher	35	\$4 67	18	\$4 50	21 13	\$4 50 9 00	20	\$2 16
Bacon	30	4 67	6	4 00	2 2	3 75 7 50		
Hucksters	13 16 31 10	2 00 2 50 3 00 3 50	38	3 00	7 26	3 00 6 00	20	2 16
Butter	3 7 2 2	2 50 3 00 3 50 2 00	8	4 00	7	3 00	14	2 16
Fish	2 6 3	2 50 3 00 3 50	3	3 00	2 3	3 00 6 00	* 4	
Miscellaneous	24	3 00	7	4 00	13	6 00	6	2 16
Receipts		5,178 79		2,811 90		4,436 32		1,512 76
Expenditures		3,820 09		2,372 24		2,051 92		1,386 75

* Sold annually.

APPENDIX X 2.

WATER REGISTRAR'S OFFICE, DISTRICT OF COLUMBIA,
September 30th, 1881.

SIR: I have the honor to make the following report of the operations of the department from July 1, 1880, to June 30, 1881.

WATER-MAINS.

1st. The total length of water-mains laid in the District of Columbia is 927,777½ feet, or $175\frac{3}{5}\frac{777}{80}$ miles.

2d. Laid by the United States Government: 30-inch, 12-inch, 6 and 4 inch mains, 93,750 feet, or $17\frac{3}{5}\frac{990}{80}$ miles.

3d. Laid by the late corporation of Washington: 6 and 4 inch mains, 55,000 feet, or $10\frac{2}{5}\frac{200}{80}$ miles.

4th. Laid by the District of Columbia: 36, 30, and 20 inch mains. 31,639 feet, or $5\frac{5}{5}\frac{230}{80}$ miles.

5th. Laid by the water department since its organization to June 30, 1881: 12, 6, and 4 inch mains, 751,179½ feet, or $142\frac{1}{5}\frac{419}{80}$ miles.

Of the above there were laid since its organization to June 30, 1881: 12, 6, and 4 inch mains 751,179½ feet, or $142\frac{1}{5}\frac{419}{80}$ miles.

Of the above there were laid since July 1, 1880, to June 30, 1881, 3,709 feet, of which the following is a correct list:

Streets.	Streets between.	Diameter.	Length.
		<i>Inches.</i>	
Massachusetts avenue...	Sixteenth and Seventeenth streets west, north side	6	528
Eighth street west	B and C streets south, center	6	432
K north	Thirteenth and Fourteenth streets west, north side	6	456
Jefferson street	Connecticut avenue and Nineteenth street west, center ..	6	486
S street	Seventh and Eighth streets west, center	4	264
N north	Nineteenth and Twentieth streets west, west side	6	182
Kingman's Place	Thirteenth and Fourteenth streets west, center	6	275
N north	Connecticut avenue and Nineteenth street west, south side.	6	324
R north	Sixteenth and Seventeenth streets west, center	6	510
Twenty-third west	Virginia avenue and E street north, north side	6	252
Total .....	.....		3,709

FIRE-PLUGS.

There are in the District of Columbia 825 fire-plugs, nearly all of the McClelland patent. Three have been erected from July 1, 1880, to June 30, 1881, of which the following is a correct list:

Southwest corner Eighth and B streets, southwest.

Northwest corner Sixteenth and R streets, northwest.

Northwest corner Ninth and B streets, northwest.

One new fire-plug has been erected in the place of an old one, at the northeast corner of Thirteenth and C streets, northwest. Four fire-plugs have been moved to new curb-line, at the following places:

Fifth and M streets, northwest.

Fourth and Q streets, northwest.

Iowa Circle, northwest.

Louisiana avenue between Four-and-a-half and Sixth streets, northwest.

Two hundred and eighteen repairs have been made to fire-plugs in

the District of Columbia. The plugs have been flushed about 7,250 times, and oiled about 24,000 times.

STOP-VALVES.

From July 1, 1880, to June 30, 1881, there have been inserted 8 stop-cocks and boxes, of which the following is a correct list:

Size.	Location.
One 2-way, 6-inch	Northwest corner of Massachusetts avenue and Sixteenth street, northwest.
One 4-way, 6-inch	Center of Eighth street, north side, C street southwest.
One 2-way, 6-inch	Center of Eighteenth street, corner of Jefferson street, northwest.
One 4-way, 6-inch	Center of Nineteenth street, corner of Jefferson street, northwest.
One 4-way, 6-inch	Center of Eighth and S streets, northwest.
One 2-way, 6-inch	South side of P street, center of Kingman's Court, northwest.
One 2-way, 6-inch	Center Connecticut avenue and N street, northwest.
One 2-way, 6-inch	Southeast corner of Nineteenth and N streets, northwest.

Sixteen water-main stop-cocks have been raised and lowered.

Twenty-one repairs have been made to stop-cocks.

Stop-cocks have been oiled 3,800 times.

BRANCHES.

There have been inserted since July 1, 1880, to June 30, 1881, nine six-inch T branches.

HYDRANTS.

There are in use in the District of Columbia 816 hydrants. Twenty-three new hydrants have been erected in place of old ones; 12 new hydrants have been erected at new locations, and 4 hydrants have been taken out during the year.

NEW HYDRANTS ERECTED IN PLACE OF OLD ONES.

Virginia avenue, corner of Four-and-a-half street, southwest.

North Capitol and C streets, northeast.

South Carolina avenue, corner of Second street, southeast.

North Capitol street, between G and H streets, northeast.

Delaware avenue, between B and C streets, northeast.

New Hampshire avenue and G street, northwest.

Cherry alley and Water street, west.

First and L streets, northwest.

Third and L streets, southeast.

Fifth and Ridge streets, northwest.

Sixth street, between Pennsylvania and Missouri avenues, northwest.

Seventh street, between T and U streets, northwest.

Thirteenth and D streets, northwest.

Thirteenth and E streets, southwest.

Thirteenth and G streets, northwest.

Twenty-first and H streets, northeast.

Twenty-second and I streets, northwest.

Twenty-third and H streets, northwest.

Twenty-sixth and I streets, northwest.

Thirty-second and O streets, west.

I street, between Twenty-first and Twenty-second streets, northwest.
N street, between Fourth and Fifth streets, northwest.
H street, between North Capitol and First streets, northwest.

NEW HYDRANTS ERECTED IN NEW LOCATIONS.

Marion street, between P and Q streets, northwest.
B street, between Third and Fourth streets, northeast.
E street, between Sixth and Seventh streets, southeast.
F street, between Second and Third streets, southwest.
Second street and Virginia avenue, southwest.
Second and C streets, southwest.
Third and O streets, northwest.
Third street, between I and K streets, northwest.
Eighth street, corner Boundary, northwest.
Eleventh street, between V and W streets, northwest.
Bates' alley, between Sixth and Seventh and G and H streets, northwest.
Delaware avenue and H street, northeast.

HYDRANTS TAKEN OUT.

Sixth and O streets, northwest.
Seventh and I streets, northeast.
Thirteenth street, between E and F streets, northwest.
N street, between Fourth and Fifth streets, northwest.

There have been 247 repairs made to hydrants in the District of Columbia during the year.

TAPS.

From July 1, 1880, to June 30, 1881, there have been made 617 taps, consisting of $\frac{5}{8}$, $\frac{3}{4}$, and one inch in diameter.

FOUNTAINS.

Seven repairs have been made to public fountains.

SERVICES.

2,100 services measured and examined.
48 services repaired.
70 services lowered.
59 services run for new places.
16 services run in place of old ones.

LEAKS.

Seventy-one leaks in mains have been repaired during the year.

PUMPS.

There are 464 pumps in use in the District of Columbia, 2 of which have been erected during the year, at the following localities:
Ninth street, extended above Boundary street.

Twenty-second street and Virginia avenue, northwest.

Five pumps have been moved to new curbs, one lowered to grade, and twelve pumps have been condemned during the year.

Twenty-one wells have been cleaned out, and 407 repairs have been made to the different pumps.

PUMPS MOVED TO NEW CURB.

Tenth street, between O and P streets, northwest.

Seventh street, corner Massachusetts avenue, northeast.

Sixth street, between P and Q streets, northwest.

Sixth street, corner H street, northwest.

Sixth street, corner G street, northwest.

PUMP LOWERED TO GRADE.

Second and I streets, southeast.

PUMPS CONDEMNED.

Second and B streets, northeast.

Four-and-a-half and N streets, southwest.

Sixth and E streets, northwest.

Seventh street, between L and M streets, southeast.

Twelfth and G streets, southeast.

Thirteenth street, between N and O streets, northwest.

Fourteenth street, corner L street, northwest.

Fourteenth street, corner S street, northwest.

Fifteenth street, corner East Capitol street, northeast.

Boundary street, corner Eighth street, northwest.

Delaware avenue, corner H street, northeast.

Hillsdale pump, county.

Statement showing the amount of money collected by the collector of taxes for the Water Department from July 1, 1880, to June 30, 1881.

Water-tax	\$26,809 53
Water-rent	109,679 58
Water-taps	1,851 00
Water-permits, &c	1,908 22
	140,248 33

Expenditures of the Water Department from July 1, 1880, to June 30, 1881.

Office rolls	\$10,830 00
Contingent expenses of office (printing, &c.)	1,141 10
Laborers' rolls	23,692 55
Material, &c.	29,080 69
Refunded	290 24
Erection of standpipe	1,580 39
Interest and sinking fund	74,123 77
	140,738 74

WATER TAX.

The total assessment for water mains laid between July 1, 1880, and June 30, 1881, amounts to \$7,042.70.

234 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement showing amount of outstanding water-main tax and interest on June 30, 1881.

Water-main tax.....	\$45,612 22
Interest.....	16,677 64
Total	62,289 86

Water has been introduced into 664 new places during the year.

The number of houses using water for domestic and miscellaneous purposes on June 30, 1881, was 18,313.

Estimate for the expense of the Water Department for the fiscal year ending June 30, 1883.

For salaries of water registrar, five clerks, inspector, messenger, and inspector and tapper of mains	\$13,720 00
For contingent expenses.....	1,500 00
Engineers and firemen, coal, material, &c., for high service, Washington.	8,907 50
Engineers and firemen, coal, material, &c., for high service, Georgetown.	7,811 25
For repairing, examining, and flushing fire-plugs, repairing hydrants, and oiling stop-cocks, material, fire-plugs, hydrants, &c.....	7,175 75
For repairing mains, turning off and on water, tapping, taps, material, &c.	10,020 00
For laying new water-mains.....	10,000 00
For repairing pumps, digging wells, material, and blacksmithing	3,391 00
For carriage and driver	900 00
	63,411 50

Before closing my report, I wish to urge upon Congress, through you, the very great necessity of its taking steps, at the approaching session, to improve the water supply.

Everything concerning the Water Department is in the most satisfactory condition except the want of an ample supply of water.

The rents are paid up closer than they have ever been in any previous year, and the arrearage tax on mains is being satisfactorily collected. The water-takers are more prompt in complying with the laws and regulations; and the plumbers, who have as a class been found much fault with, I am happy to state readily comply now with the law and regulations, with a few exceptions, and give the department no trouble.

The department has had considerable increased work in trying to have the stop-cock and street-washer boxes which project above the sidewalks lowered to the grade of the pavement. The majority of the property-owners act promptly after being notified to have their boxes lowered. A few make a fight about the matter, but by kind persuasion have finally given in.

It is difficult to estimate for certain expenditures of the department in advance. For instance, we cannot tell how many of the mains may need repair. This depends altogether upon the severity of the winter. We would no doubt have had a great deal of this kind of work to do last winter but for the timely snow which afforded protection to them. During the "comprehensive improvement" by the board of public works a number of streets were lowered and the water-mains in said streets were not lowered to correspond with the grade, consequently they are in danger of bursting in the freezing weather. The estimate for laying new mains can only be approximated, as it altogether depends on the application of parties who are interested in having them laid. As the law assesses all property which borders on water-mains one and one-quarter cents per square foot, and we never lay mains now until the assessment is paid in advance, this will not make much difference.

The department has experienced much trouble the present year about the limited supply of water, and has done all in its power to correct the

trouble. It thought the supply would be increased for domestic use by the shutting down of the public fountains, and a request to Colonel Rockwell, Commissioner of Public Buildings and Grounds, to shut them off was gracefully complied with by him, and the experiment proved of considerable benefit. At present there is a very large number of elegant residences being erected which will require a large supply of water, and unless some action is promptly taken to give this increased supply, persons will feel discouraged and the city will fail to be improved by parties who are willing and anxious to build, but are discouraged by the great scarcity of water, especially on the higher points of the city. Mr. Henry Larman, the inspector and tapper of mains, calls my attention again to the importance of inserting a 30-inch stop-cock for a blow-off near the intersection of New Jersey avenue and D street, northwest, for the purpose of flushing the large mains to clean out the mud which accumulates in them. I consider Mr. Larman a very practical man, and consequently attach importance to any recommendation which he may make.

In the present limited supply of Potomac water I think it would be well to preserve for use, in the case of an emergency, all the pumps the water of which has by chemical analysis proved to be of a pure and healthful quality which are now in existence. Besides, there are quite a number of poor persons who cannot afford to buy ice, and the pump-water for drinking purposes affords them great comfort in the sweltering days of midsummer.

I do not think it advisable to sink any new wells, for the reason of the extensive system of sewerage, except, perhaps, in very special instances.

There is one more thing I wish to call attention to while I am on this subject; that is, the great importance of the police being instructed to keep vigilant watch over pumps, for the reason that we often have to repair them as many as three or four times within a month, owing to the fact that mischievous boys throw gravel and stones down them, and we sometimes take out as many as a bucketfull. Two or three arrests and convictions for this outlawry will suffice, I think, to correct this trouble.

I will add that the clerks and employes of the department continue to give satisfaction, and are always prompt, reliable, and efficient. The inspector and tapper of mains gives increased evidences of his efficiency, and is frequently called out at night, in all kinds of weather, to superintend the repairs of leakages in mains to prevent the wastage of water and destruction of property, which, added to his regular day work, makes his office an arduous one, but he is equal to the emergency and answers every call made upon him without a murmur.

I am, sir, yours, very respectfully,

THOS. C. COX,
Water Registrar.

Maj. WILLIAM J. TWINING, U. S. A.,
Engineer Commissioner of the District of Columbia.

APPENDIX X 3.

REPORT OF THE SURVEYOR.

SURVEYOR'S OFFICE,
Washington, D. C., September 30, 1881.

SIR: I have the honor to submit report of the operations of this office for the fiscal year ending June 30, 1881; so much as pertains to the period

prior to my reappointment (April 4, 1881) being obtained from the files of my predecessor;

Survey for property-holders.....	564
Subdivisions recorded and plats issued.....	96
Miscellaneous plats and tracings.....	84
By order the Commissioners District Columbia:	
Surveys streets, roads, and alleys.....	15
Surveys of lots.....	20
Reports upon streets, roads, and alleys.....	36
Reports upon miscellaneous subjects.....	12

There has been prepared, by my predecessor, a map, in duplicate, "of that part of the city of Washington called Georgetown, showing new names of streets and the location of buildings and their numbers, under the new system of enumeration."

Plats of all current subdivisions, city and county, are regularly duplicated, and areas computed for the information and guidance of the assessor's office.

I respectfully ask your attention and favorable consideration relative to the status of this office, with a view to its re-establishment upon a more reasonable and equitable basis. Greater public interests and responsibilities attach to few offices of the District, and none, perhaps, less fortunate in executive recognition.

I have the honor to be, sir, very respectfully, your obedient servant,
WM. FORSYTH,
Surveyor District of Columbia.

Maj. W. J. TWINING,
Corps of Engineers, U. S. A.,
Engineer Commissioner District of Columbia.

Estimate of expenses for conducting the office of the surveyor of the District of Columbia, for the year ending June 30, 1883.

Salary of surveyor.....	\$2,400 00
Salary of clerk.....	1,400 00
Salary of messenger.....	600 00
Binding land records, mounting maps, and for books, stationery, fuel, and other contingencies.....	400 00
Total.....	4,800 00
Respectfully submitted.	

WM. FORSYTH,
Surveyor District of Columbia.

APPENDIX X 4.

REPORT OF THE PARKING COMMISSION.

WASHINGTON, D. C., November 10, 1881.

MAJOR: The parking commissioners have the honor to submit the following report for the year ending June, 1881:

During the year 2,139 trees have been added to the number on the streets, and 556 replanted. These latter have been used to fill vacancies caused by storms, accidents by runaway horses, willful destruction by malicious persons, and rigorous weather. Three thousand and fifty

large-sized tree-boxes have been procured, and 1,900 of the second size for newly-planted trees.

Among other items, 58,000 stakes have been used for supporting the boxes, 7,500 pounds of material for strapping, and 135 kegs of nails in repairing and renewing boxes.

One hundred and fifty-five old, decayed, and useless trees have been removed, and 2,075 holes prepared for planting.

The annual expenditure essentially necessary for the ordinary care of the 50,000 trees in the city has now become so large that only a small amount of the annual appropriation allotted the parking commission is available for the extension of tree-planting.

The maintenance of the boxes for protection of the trees constitutes a large item of expenditure. Over 30,000 of the boxes either have been renewed or stand in need of renewal, and every year adds to the list. An effort has been made to dispense with the boxes in the case of the older trees, but it was found impracticable to preserve the trees from injury after removal of the boxes, so that they had to be again protected. It is contemplated to substitute a cheap guard which will protect the main stem of the tree from the gnawing of horses, and from the chopping with hatchets and peeling with knives in the hands of those who find a malicious amusement in destroying public property, which, so far as regards the shade trees, they seem to be able to do without let or hinderance. If a suitable guard can be adopted, it will, to that extent, diminish the expenditure for protection.

Consequent upon the improvement which curtails the width of the streets and removes the curb line to a greater distance from the building line, many trees, formerly on the curb line, are now included in the parking, and, in some instances, they are left in the sidewalk, where they are palpable obstructions in the public thoroughfare; but, whether in the parking or the sidewalk, they are mostly situated so as to be injurious to the newly-planted trees, and they should be removed at once.

Street trees are subjected to many casualties and unhealthy influences which are in a great degree unavoidable. They are particularly liable to injury from storms on account of the early removal of all branches from the lower portion of the main stem; this pruning is unavoidable in order that branches may not interfere with the proper use of the streets and sidewalks, but it weakens the body of the trees, and deprives them of the power of resisting the storms, as compared with trees whose natural growth is not disturbed by manipulations; hence the necessity of a strong protecting box—strong enough to support the plant for the first two or three years of its growth; but after it ceases to afford support it is of no further value except as a guard to the stem from depredations, as remarked above. With a view to lessen the chances of injury from gales, recourse is had to pruning or thinning out the tops during summer, thus allowing the wind to pass through the branches and measurably saving the trees from being uprooted by storms.

Again, insects are more prevalent and more injurious on city trees than on those situated in more exposed locations. The shelter and warmth of the city favor their increase, and although various remedies have been suggested and tried, looking to their eradication, few have been of practical value.

To destroy all kinds of scale insects on the branches, no remedy has been found so efficient as that of covering them with a coating of common lime-wash. Many suggestions have been given for the destruction of caterpillars, and if the operation was confined to a few trees the remedies would be found efficient; but when multiplied by thousands it is

found that the cost becomes altogether beyond the appropriations available for this purpose; therefore the only practicable mode is that of removing the young insects before they have extended their webs over the branches, and this is accomplished so far as means will allow, but it is only partially performed on account of the amount of labor required.

Leakage from gas-pipes is another evil which destroys many trees. This cannot be foreseen, even if it could be prevented.

Notwithstanding all drawbacks, there is no city on this continent so well furnished with healthy shade trees, and as to cost of planting and care, we may safely challenge comparison, for a similar result, with any city in the world.

Respectfully submitted.

WM. R. SMITH,
JOHN SAUL,
WILLIAM SAUNDERS,
Parking Commission.

Maj. W. J. TWINING,
*Corps of Engineers,
Engineer Commissioner, D. C.*

APPENDIX X 5.

REPORT OF THE SUPERINTENDENT OF GAS AND LAMPS.

ENGINEER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, September 15, 1881.

SIR: I have the honor to submit my report of the operations of this office and expenditures incurred from June 30, 1880, to June 30, 1881, showing a total expenditure of \$123,337.80.

The street lamps of Washington and Georgetown have been lighted during the past year 2,200 hours. Sixty extra hours were burned in the month of March, owing to the inaugural ceremonies, and the great influx of strangers into the city made it necessary to keep the streets lighted for the protection of the same. The extra hours burned in the month of March were severely felt in the month of June, as it reduced the number of hours allotted to that month, and as the month was dark and stormy it caused great dissatisfaction, owing to the streets not being lighted, and as the appropriation was limited to 2,200 hours there was no remedy without creating a deficiency and violating an order of your department. A new contract was entered into with the Washington and Georgetown Gas Companies June 1, 1881, for lighting and repairing the street lamps of these cities for one year; the former at \$28 and the latter at \$30 per annum; but before the contract was signed the Committee on the District, House of Representatives, requested its suspension, when a proviso was inserted in the sundry civil appropriation bill, requiring the gas companies, on and after July 1, 1881, to light and repair the street lamps of the two cities for the sum of \$25 per lamp per annum, and giving the Commissioners the discretion of using other illuminating material in case of a refusal on the part of the companies to accept the same. The above figures will reduce the price of gas for street lamps to \$1.45 per thousand feet, while our neighboring city of Baltimore has entered into contract with the gas companies of that city for lighting their streets for three years at \$1.85 per thousand feet, showing a difference of 40 cents per thousand feet in favor of this city. The burners have been changed on the street lamps of the entire city, at the

expense of the gas company; the burner used is the Ellis adjustable. The burner was tested and adjusted by the United States inspector of gas to burn six feet of gas under a pressure of thirteen-tenths, it being the average pressure of the city.

Eighty-seven lamps have been erected during the past year in the two cities. Street lamps have been extended to keep pace with the improvements, and I can see no good reason for any further extension of lamps during the next year except a small number in the northwest section of the city, where it is improving very rapidly. Seventy-five lamps have been erected in the alleys in the different sections of this city and Georgetown from the special appropriation, approved June 4, 1880, for erecting and lighting lamps in alleys; these lamps will be a great auxiliary to the police department if proper protection can be given them, as they are entirely hid from the view of persons passing on the streets, and therefore entirely at the mercy of the inhabitants of those alleys, who are not of our best class of citizens, and love darkness rather than light; and I am sorry to report that a large number of those lamps have already been broken. I would also report that there has been a great destruction of the lamps lately erected beyond the boundary, by the boys, along Seventh-street road; also by the students of Columbia College, on Fourteenth-street road. The attention of the faculty was called to this great waste of public property, and they have promised to give them their protection in the future. An arrest was made in the month of May for the breakage of those lamps, by the police department, and when brought before the police court the law-officers of the District decided that there was no law to punish parties for destroying public property in the county, and the party was released without any punishment. I would respectfully recommend that on a repetition of the offense, the lamps be removed from the posts in the county until some law can be found to give them protection. There has also been a great destruction of glass in the lamps in the southwestern portion of the city; whole squares have been broken in one night—Fourteenth street from B to B, and Maryland avenue from Twelfth to the long bridge, have been the principal points broken. The police department have given me all the aid in their power, but with their limited force it is impossible to keep their men at one point any great length of time. A large number of glass street-signs have been broken during the past year, principally by the lamp-lighters; and on my recommendation, in my last report, that the gas companies be held responsible, which met your approval, will have a beneficial effect. The signs broken have been put in complete order, and covered in the contracts made with the two gas companies for the repairs of those signs in the future. One hundred new street designations have been placed on corner lamps which have been erected since the streets were first marked, and which will be a great convenience to strangers visiting our city.

On the 27th of June a great storm passed over the heart of the city, causing great damage to the street lamps, which accounts for the large number of new lamps used, as some eighty were entirely destroyed, and two hundred more or less injured. In Georgetown the approaches to Oak Hill Cemetery have been lighted, as well as a portion of the alleys. No erection of new lamps will be required in this city during the present year.

Respectfully submitted.

W. H. BAILEY,
Superintendent.

Maj. W. J. TWINING,
Corps of Engineers, U. S. A., Engineer Commissioner D. C.

240 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Tabular statement of expenditures for lamps and gas from June 30, 1880, to June 30, 1881.

WASHINGTON.	
Gas for street lamps.....	\$104,982 03
Gas for alley lamps.....	399 00
Gas for district offices	660 60
Gas for market-houses.....	865 50
73 lamp-posts purchased for streets	483 26
74 lamp-posts purchased for alleys	489 88
123 lamps purchased for streets	307 50
122 lamps purchased for alleys.....	305 00
Erecting street lamps	422 84
Erecting alley lamps	689 91
10 lamp-posts purchased for repairs.....	66 20
133 lamps purchased for repairs.....	332 50
398 street-sign glass	159 20
101 frames and signs	176 75
Repairs incidental to improvements.....	182 85
12 flanges.....	9 00
12 arms.....	6 00
Redrilling old arms.....	2 00
12 bolts.....	6 00
	110,546 02
Number of lamps in Washington June 30, 1880.....	3,660
Number of lamps erected in Washington since June 30, 1880.....	147
Relighted old lamps.....	5
Discontinued.....	12

GEORGETOWN.	
Gas for street lamps.....	\$12,249 33
Gas for alley lamps	3 75
Gas for market house	200 38
14 lamp-posts purchased for streets	92 65
1 lamp-post purchased for alley.....	6 62
14 lamps purchased for streets	35 00
1 lamp purchased for alley.....	2 50
Erecting street lamps	123 75
Erecting alley lamps	8 25
24 lamps purchased for repairs	60 00
Repairs incidental to improvements.....	8 96
	12,791 19
Total.....	123,33 7
Number of lamps in Washington June 30, 1881	3,800
Number of lamps in Georgetown June 30, 1881.....	402
Total	4,202

APPENDIX X 6.

REPORT OF THE CHIEF OF SPECIAL ASSESSMENT DIVISION.

OFFICE OF THE COMMISSIONERS, DISTRICT OF COLUMBIA,
SPECIAL ASSESSMENT DIVISION,
Washington, October 10, 1881.

GENTLEMEN: I have the honor to submit the following report of work done by this division since my statements dated October 17, 1879, incorporated in the report for that year of Lieut. R. L. Hoxie, Corps of Engineers, U. S. A.

The pressure of work to complete the revision of the special assessments

prior to the session of Congress in December last prevented the preparation of any statements for use in the annual report for 1880.

STREETS, AVENUES, AND ROADS.

The revision of the assessments upon all the streets, avenues, and roads has been completed, the result, as affecting each lot and subdivision, has been entered upon the records, and the drawback certificate, if any due, has either been issued or awaits the claim of owner. Appendix 1 is a statement in continuation of the tables in the annual report of 1879, and gives the revisions completed since that date of assessments upon streets, avenues, and roads.

UNITED STATES.

In the annual report for 1879 is a statement of the charges against the United States in assessments not at that time revised. Appendix 2 is a statement of the corrected amounts charged to the United States in the revision of said assessments, amounting to \$821,265.64 instead of \$1,085,226.10 as originally charged.

ALLEYS.

The alley assessments were suspended by a verbal order of the former Board of Commissioners of the District of Columbia. The present board, by their order, dated February 6, 1880, revoked the order of suspension and directed the revision of these assessments. I have completed the examination of these, and the work of correcting the frontages to be assessed under the order of August 27, 1878, ascertaining the partial and total exemptions under the existing regulations and the several acts of Congress, the calculation of the drawbacks to which the individual lots may be entitled either by a credit upon unpaid assessment or by certificate, and the entering upon the records the net result, is being pushed with all the rapidity that my extremely-reduced force will allow. Appendix 3 is a statement of the alley assessments, showing the amount of the original assessment and the amount of the revised assessment. The latter amount is subject to reduction by the drawbacks that may be found due to the individual lots as the work of completing these revisions progresses, as well as cases in which the charge against property assessed is virtually canceled by reason of the omission of such charge in certificates issued by the collector of taxes during the period of the suspension of these assessments.

LIEN CERTIFICATES NOT HELD BY THE COMMISSIONER OF THE SINKING FUND.

The amount of uncollected special assessments, as revised, applicable to the payment of lien certificates issued by the late board of public works, and not held by the commissioner of the sinking fund, exclusive of interest, deducting reductions of said assessments by additional credits allowed by order of the Commissioners of the District of Columbia, and payments into court by owners of lots, is \$154,536.68. The holders of these certificates had a lien upon the property assessed for the amount of the certificates. Many of these were paid before the revision of the assessments, and in such cases the holders of the certificates sustain no loss; in other cases, the revision having reduced

the amount owing by the property-owner, the latter has the right to pay the lesser sum. The amount of these lien certificates so affected by revision is \$279,009.77. The assessments upon which these were based have been by revision reduced to \$173,489.18. Amount of reduction, \$105,520.59. These lien certificates bear interest upon their face at 10 per centum per annum from the date of issue, an average of over eight years. The act of Congress approved June 19, 1878, provided for the issue of a drawback certificate for the amount of the erroneous or excessive charge, but as the Commissioners of the District of Columbia, by their decision dated September 10, 1880, declined to entertain the question of accrued interest upon the amount of such reduction the holders of the lien certificates have refused to accept. Appendix 4 is a detailed statement of such lien certificates as affected by the revision of the assessments upon which they were based.

DRAWBACK CERTIFICATES.

The amount of drawback certificates issued to date is.....	\$684,203 96
Amount redeemed in payment of special assessments:	
Transmitted to commissioner of sinking fund \$164,325 09	
Held for account of sinking fund.....	244,732 41
	409,057 50
Amount redeemed in payment of general taxes reported by collector	250,222 17
	659,279 67
Outstanding	\$24,924 29
Adjusted and ready for issue, awaiting demand of owners.....	\$39,914 07

EIGHT PER CENT. CERTIFICATES.

The amount of eight per cent. certificates outstanding January 1, 1881,	
as per report of the commissioner of the sinking fund of that date, was.	\$594,750 00
Plus accrued interest (estimated).....	220 000 00
Total at that date.....	\$814,750 00
From January 1, 1881, to date, the records of this office show that there has been redeemed by receipt in payment of special assessments:	
Par value 8 per cent. bonds.....	\$73,450 00
Par value coupons.....	8,770 00
Accrued interest on bonds.....	23,912 18
Accrued interest on coupons.....	2,716 50
	108,848 68
	\$705,901 32

Which amount should be increased by adding the accrued interest to date, and decreased by crediting the redemptions (if any) made by the commissioner of the sinking fund.

The amount of uncollected special assessments, as revised, pledged to the redemption of the eight per cent. certificates as appears upon the records of this division is \$684,131.55.

The above amount does not include the accrued interest at ten per centum per annum upon the lien certificates held by the commissioner of the sinking fund, nor property exempted by the acts of Congress approved June 17, 1870, and June 11, 1878, so far as such exemptions are known, nor the amounts due upon the alley assessments, which at this time cannot be accurately given for reasons heretofore stated, nor the amounts charged to the several street-railroad companies.

STREET RAILROADS.

The amount charged in the revision of the assessments for work done within two feet outside of either outer rail of the several street-railroads upon streets paved subsequent to the occupation by the company, is \$259,952.85, of which there has been paid \$15,036.12, leaving an unpaid balance of \$244,916.73.

Appendix 5 is a detailed statement of the amount charged each company and of the payments made.

PROPERTY HELD BY EDUCATIONAL, CHARITABLE, AND RELIGIOUS INSTITUTIONS.

Appendix 6 is a detailed statement of unpaid charges against such property so far as known to be so held.

CONDEMNATION OF ALLEYS.

There are of record in this division assessments for condemnation of alleys in squares 103, 158, 159, 170, 306, 364, 375, 376, 393, 417, 419, 559, 560, 579, 630, 684, 691, 693, 725, 762, 818, and 1033. Each assessment states the amount due by each lot for benefits assessed and the amount due to each lot for damages sustained. Congress, by act approved June 4, 1880, appropriated \$27,497.73 to enable the District of Columbia to make immediate settlement for land taken, without the delay incidental to the collection of the benefits assessed, and also to make payment for land taken for the gravel-pit at the head of Slash Run sewer. I have reported for payment, under said act, the amounts due to the several lots in squares 103, 159, 393, 417, 560, 579, 691, 693, 725, 818, and 1033, as well as for the gravel-pit. The reports in the remaining cases are withheld for want of satisfactory evidence that the land condemned has been taken by the District.

ORDERS.

The following orders have been received :

DECEMBER 13, 1879.

Ordered, That hereafter drawback certificates will only be issued on Monday of each week. On all other days the office of the clerk in charge of the revision of special assessments will be closed for the purpose of completing the revision.

DECEMBER 20, 1879.

Ordered, That the offices known, respectively, as "the clerk in charge of special assessments" and "the clerk in charge of revision of special assessments" are hereby consolidated, and shall hereafter be known as the special assessment division; that it shall be the duty of Mr. George W. Beall to receive all payments of special assessment bills, and keep such accounts as are incidental thereto; that Mr. William O. Roome is hereby appointed chief of the special assessment division, and as such shall assume charge of all matters and records relating to special assessments, and report directly to the Commissioners in all cases requiring the special action of the board.

DECEMBER 26, 1879.

Ordered, That in cases where work was completed prior to February 21, 1871, the law of assessment is the law of the old corporation, and the whole cost is to be assessed. Where work was completed after February 21, 1871, only one-third is to be assessed. The above decision will be observed in the H. D. Cooke assessments.

244 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

JANUARY 11, 1880.

[Memorandum order.]

To Chief of Special Assessment Division :

In issuing drawback certificates to the holders of lien certificates for so-called H. D. Cooke assessments, the drawback will be for two-thirds of the principal, and the interest on said two-thirds to date, in accordance with the terms of the lien certificate.

FEBRUARY 6, 1880.

Ordered, The chief of the special assessment division will proceed to revise the alley assessments.

The verbal order of the board suspending these assessments is hereby revoked.

FEBRUARY 26, 1880.

Ordered, That in pursuance of the resolution of the Committee for the District of Columbia of the House of Representatives, of this date, the issue of drawback certificates under provisions of the acts of Congress of June 19, 1878, and June 27, 1879, is hereby suspended, and the collector of taxes will not receive hereafter any of these certificates heretofore issued until otherwise ordered.

APRIL 1, 1880.

Ordered, That the order of February 26, 1880, suspending the issue and receipt of drawback certificates, under provisions of the acts of Congress of June 19, 1878, and June 27, 1879, is hereby revoked.

APRIL 5, 1880.

Ordered, That hereafter the cashier of the special assessment division and the collector will be required to furnish, direct to the Commissioners, a statement each day of the drawback certificates received during the day preceding, giving the number of each certificate, the amount, the lot and square upon which issued, and the name of the person to whom issued. The statements so rendered will be forwarded by the Secretary to the chief of the special assessment division, who will cause the statements to be compared by the clerks in charge of the individual ledgers, and return them, with his own signature and those of the clerks in charge of the several ledgers. As soon as practicable, similar reports will be made of drawback certificates heretofore received.

APRIL 23, 1880.

Ordered, That the chief of the special assessment division be, and he is hereby, directed to cause the funds in the custody of Mr. George W. Beall, received for condemnation of alleys, to be delivered to the treasurer of the District, who will make a special deposit of the same in the Treasury of the United States.

MAY 3, 1880.

To the Chief of the Special Assessment Division :

SIR: I am directed to notify you to discontinue the search for complaints against the so-called H. D. Cooke assessments which was instituted at the request of Hon. N. W. Aldrich, of the Committee for the District of Columbia of the House of Representatives. Also to return to the files all papers withdrawn therefrom in the prosecution of said examination, and to preserve as far as practicable, by suitable memoranda, for future reference, the results of your investigation.

Very respectfully,

WILLIAM TINDALL,
Secretary.

MAY 6, 1880.

Ordered, That hereafter no clerk discharged for cause will be allowed to practice as an attorney or agent for others in the District offices.

MAY 15, 1880.

Ordered, That when an assessment has been finally revised under acts of Congress of June 19, 1878, and June 27, 1879, and the bill settled or drawback certificates issued and accepted, as provided in said acts, no further action can be taken in such cases.

JUNE 3, 1880.

Ordered, That in case of lien certificates now being issued, the chief of the special assessment division will date the interest on the revised assessment thirty days after the date of the original assessment, in accordance with the opinion of the attorney of the District of Columbia of July 15, 1878.

JUNE 30, 1880.

Ordered, That from and after this date it shall be the duty of the collector of taxes to receive, collect, and account for all taxes assessed for special improvements; and John W. Clark, of the special assessment division is hereby transferred to the collector's office to aid him in the discharge of this additional duty.

JULY 1, 1880.

Ordered, That the drawback certificates received by the collector of taxes in payment of special assessments shall be canceled and turned over by him to the chief of the special assessment division, taking his receipt therefor.

That drawback certificates received in payment of special assessments, upon which lien certificates are held by third parties, shall be stamped, "Received in payment of special assessments upon which lien certificates are not held by the sinking fund."

That the collector of taxes will report daily to the chief of the special assessment division a detailed statement of all collections made on account of special assessments.

JULY 6, 1880.

Ordered, That in the revision of special assessments of streets, or portions thereof, where the grading or other specific work is incomplete, the charge for the work not completed shall be deducted from the assessment and charged to the general fund, to be taken up in any future assessment that may be made upon completion of the work, or held as an offset to any claims for damages that may be made on behalf of the property affected thereby. In carrying into effect this order, all grades shall be considered complete which have been brought within two feet of actual grade from street to street.

JULY 12, 1880.

Ordered, That the chief of the special assessment division is hereby authorized to receive and receipt for all books, papers, records, property, and securities belonging to that division which have heretofore been under the charge of Mr. George W. Beall.

Receipts will be given in triplicate, one copy to be deposited with the secretary to the Commissioners.

JULY 13, 1880.

Ordered, That in the revision of assessments, in cases of corner lots assessed for sewers under a corporation or other assessment not subject to revision, credit may be given on a subsequent assessment for sewers on the remaining side not to exceed seventy-five feet.

That the chief of the special assessment division shall be required to give bond in the sum of five thousand dollars.

JULY 20, 1880.

Ordered, That the collector of taxes shall transmit to the chief of the special assessment division all collections made on account of special assessments upon which lien certificates have been issued, and are not held by the sinking fund, taking his receipt therefor.

AUGUST 7, 1880.

Ordered, That the funds returned by the First National Bank of the city of New York to the Commissioners, under date of the 9th and 13th July, 1880, which funds had previously been received by George W. Beall, on tax-lien certificates numbered 1452, 3172, 227, and 24, supposed to be held by said bank, and by him transmitted to said bank, be delivered to William O. Roome, chief of special assessment division, for settlement with said Beall, and the receipt of said Roome taken therefor.

AUGUST 26, 1880.

Ordered, That the chief of the special assessment division shall transmit to the Commissioners, to be forwarded to the commissioner of the sinking fund, all certificates issued by the late board of audit which are now in his possession, received by his office in payment of special assessments pledged to the redemption of 8 per cent. certificates of indebtedness.

SEPTEMBER 4, 1880.

To the Chief of the Special Assessment Division:

SIR: You are hereby informed that drawback certificates which have or may hereafter be received in payment of special assessments upon which lien certificates are not held by the sinking fund will be stamped "Reissued, payable to the order of _____, holder of lien certificate," and signed by the chief of the special assessment division. Certificates so stamped and indorsed are receivable as provided for by the act of June 27, 1879.

Very respectfully,

W. TINDALL,
Secretary.

SEPTEMBER 8, 1880.

Ordered, That drawback certificates which may hereafter be received on account of lien certificates not held by the sinking fund will be stamped "Received for holder of lien certificates not held by the sinking fund."

When such drawback certificates are surrendered to the holder of the lien certificate for which they were received, they will be stamped "Delivered. Payable to the order of ———, holder of lien certificate," and indorsed by the chief of the special assessment division. Certificates so stamped and indorsed are receivable as provided for by the acts of June 19, 1878, and June 27, 1879.

So much of the orders of July 1, 1880, and September 4, 1880, as conflict with this order are hereby revoked.

SEPTEMBER 9, 1880.

Ordered, That the chief of the special assessment division shall have access to such records of the late board of public works and board of audit as he may require; such records not to be removed by him from the vault in which they are now deposited.

SEPTEMBER 10, 1880.

WM. O. ROOME, Esq.,

Chief of Special Assessment Division:

SIR: I am directed to notify you of the decision of the Commissioners that no change be made in the form of drawbacks under act of 19th June, 1878, which must be issued as heretofore for amount of reduction by revision, without interest.

Very respectfully,

WILLIAM TINDALL,
Secretary.

OCTOBER 30, 1880.

Ordered, That all collections made on account of assessments for condemnations of alleys shall be delivered to the treasurer and assessor of the District of Columbia, who will make special deposits of the same in the Treasury of the United States, as in the cases heretofore specially ordered.

NOVEMBER 20, 1880.

Ordered, That in the revision of the assessments for surface work, where the total expenditure was less than five hundred dollars, the chief of the special assessment division is authorized to charge such expenditure to the "general fund."

JANUARY 3, 1881.

Ordered, In cases where tender was made of amounts due upon special assessments and refused before the issue of lien certificates, all interest shall be remitted, and certificates subsequently issued will be recalled or reduced to the amount of the net assessment. If the lien certificate was issued previously, then interest will be charged to date of tender (attorney's opinion, 51,952 C. O.).

MARCH 8, 1881.

Ordered, The office of the chief of special assessment division will hereafter be closed to the public at 2 o'clock p. m., daily.

MARCH 8, 1881.

Ordered, as follows:

1st. That the chief of the special assessment division be directed to proceed at once to prepare for issue tax-lien certificates on all lots the assessments of which have been revised and which remain unpaid.

2d. That all drawback certificates now in custody of the chief of the special assessment division and held for account of the sinking fund be transferred to the custody of the auditor and comptroller; and that all drawback certificates hereafter received by him for account of said fund shall, after proper examination and verification, be also transferred to the auditor and comptroller.

APRIL 19, 1881.

Ordered, That hereafter all plats of subdivisions must have the official approval of the Commissioners before being recorded by the surveyor of the District of Columbia.

APRIL 20, 1881.

Ordered, That the order of the 19th instant is hereby amended by adding, that no new subdivision of property already subdivided will be admitted to record until all taxes due thereon shall have been paid.

MAY 14, 1881.

Ordered, That John A. Sloan, of the treasurer and assessor's office, be detailed as an expert to take charge of and thoroughly examine, under the direction of the chief of

special assessment division, the books and accounts of George W. Beall, late clerk in charge of special assessments, and to report thereon to the Commissioners as soon as possible; and Goff A. Hall is hereby appointed to discharge, *pro tempore*, the duties of said Sloan in the treasurer and assessor's office. This order to take effect on the 16th May, 1881.

MAY 17, 1881.

Ordered, That so much of the order of July 1, 1880, as required the transmittal of drawback certificates to the special assessment division is hereby revoked, and the certificates received by the collector of taxes from and after the 30th ultimo will be sent by that officer direct to the auditor and comptroller, District of Columbia.

MAY 26, 1881.

Ordered, That in cases where property has been sold for non-payment of any special assessment, the chief of the special assessment division is authorized and directed to enter upon the records of his office upon such account, "Satisfied by sale."

JUNE 13, 1881.

Ordered, The order of May 17, 1881, made for the temporary relief of the special assessment division, being no longer needed, is hereby revoked, and the collector of taxes is directed to transmit, as formerly, all drawback certificates received by him in payment of special assessments to the chief of the special assessment division, taking his receipt therefor.

In compliance with the order of the Commissioners of the District of Columbia dated July 12, 1880, I received from Mr. George W. Beall the following securities and cash:

Drawback transfers, old issue.....	\$45,627 82
Drawback certificates for account of sinking fund	95,015 83
Auditor's improvement certificates of board of public works.....	61,300 00
Auditor's certificates of board of public works	36,427 01
Board of audit certificates	14,677 49
Auditor's sewer certificates of board of public works.....	30,510 34
Drawback transfers	1,897 54
Board of public works' letters granting allowances	745 40
On account of lien certificates held by third parties in drawbacks.....	48,670 05
On account of lien certificates held by third parties in 8 per cents	6,750 00
On account of lien certificates held by third parties in coupons.....	416 00
On account of lien certificates held by third parties in cash.....	47 32
W. S. Moore, treasurer, certified check held as collateral.....	1,629 41
	\$343,714 21

On August 27, 1880, I forwarded to the Commissioners of the District of Columbia, for transmittal to the commissioner of the sinking fund, in accordance with order dated August 26, 1880, certificates of the late board of audit, amounting to \$14,677.49.

Drawback certificates have been received for account of the sinking fund, by this division, in accordance with orders of the Commissioners of the District of Columbia, dated April 17, 1880, July 1, 1880, and July 12, 1880, as per Appendix 7, amounting to \$244,732.41. These certificates after examination are recorded and transmitted to the auditor and comptroller of the District of Columbia, under order dated March 8, 1881.

There has been received for account of lien certificates not held by the commissioner of the sinking fund, and now on hand awaiting the demand of the owners, in cash, 8 per cent. bonds, coupons, accrued interest, and drawback certificates (for detailed statement of which see Appendix 8), the sum of \$3,471.58.

Payments have been made by this division on account of lien certificates issued by the board of public works, and not held by the commissioner of the sinking fund, as per Appendix 9, amounting to \$100,146.52.

The preparation of lien certificates was suspended by direction of the

Commissioners of the District of Columbia until March 8, 1881, when the work was ordered to proceed. These have now been issued upon all streets, avenues, and roads, except in cases awaiting the decision of the Commissioners of the District of Columbia, upon some question affecting the assessment.

Of the claims for revision and complaints filed in 1878 and 1879, 12,637 separate communications have been briefed, numbered, entered of record, investigated, and reported upon. Many of these communications refer to more than one piece of property; one paper mentions 753 distinct lots. In addition to these, 4,759 written reports have been made upon other papers referred to this office for investigation. Powers of attorney have been filed to the number of 6,904.

The current work of this office is by no means inconsiderable, and embraces much that does not appear in a report of this nature.

I cannot in justice to my clerks close this report without bearing testimony to their faithful conduct. They have worked without regard to office hours, and without the hope of fee or reward, actuated solely by their zeal for the public service.

I am, gentlemen, very respectfully, your obedient servant,

WM. OSCAR ROOME,

Chief of Special Assessment Division.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX X 7.

REPORT OF THE CHEMIST AND GENERAL INSPECTOR OF ASPHALT PAVEMENTS.

WASHINGTON, D. C., *November 26, 1881.*

MAJOR: I have the honor herewith to transmit to you a digest of the many analyses I have made during the past fiscal year for the engineer department, health department, metropolitan police, &c.

For the health department I have thus far made 204 analyses, viz, 176 of various kinds of water and 34 others of different nature, such as of milk, butter, vinegar, sugar, candies, ice-cream, bread, &c. The report in each particular case was at the proper time submitted to Dr. Smith Townshend, the health officer.

I do not regard it necessary here to repeat the processes followed by me in the analysis of the pump and other waters and the results obtained therefrom, as my report covering that subject has already been published in the last annual report of the health department.

For the metropolitan police, and for Dr. D. C. Patterson, the coroner of the District, I have made two toxicological analyses in cases of suicide. In both cases I found arsenic.

For the engineer department a daily analysis is made in my laboratory, as the work is proceeded with, of the mixture of all the asphalt pavements laid in the District. One hundred and twelve analyses on that subject were made during the year. The average quantity found of asphalt cement is—

	Per cent.
Chemically pure, 9.60 per cent. = commercial.....	14.40
Carbonate of lime.....	16.00
Fine sand.....	79.60
	100.00

This composition makes a tough and still hard asphalt pavement.

The results of these analyses have been weekly submitted to Lieutenant Greene.

All the hydraulic cements used on the public work of the District are daily tested by me as to their tensile strength, and the results obtained are weekly reported to Lieutenants Hoxie and Green with an annotation of the points where the cements have been used.

Hydraulic cement, being one of the most important materials employed in the public work now in progress in this District, I have devoted to it a great deal of time, both in accordance with your orders and wishes and for the purpose of advancing the manufacture in this neighborhood of a hydraulic cement of the first class, equal at least in quality with the best Rosendale cement; and I am now fully confident that through my analyses and the advice that, accordingly, I have given to our neighboring hydraulic cement manufacturers, namely, of Shepherdstown, Round Top, and Cumberland cements, these manufacturers are now making and furnishing the market of the District of Columbia with hydraulic cement fully equal to the well-known Rosendale hydraulic cement. The District has not only derived therefrom the advantage of a better quality of hydraulic cement, but through our labors a competition in this important article has been created, reducing the market price 20 per cent. at least.

It is a well-known fact that, with the knowledge of the chemical composition of a limestone, the nature of the lime produced therefrom after calcination can be easily adjudged. The analysis of limestone thus presents to the engineer department a high interest. Therefore, I now give you the results of my analyses and a succinct idea of the manner in which I have proceeded in these analyses.

In the analysis of limestone, it is of the greatest importance to determine the quantities of moisture, carbonate of lime, magnesia, alumina, and silica.

PROCESS OF ANALYSIS.

Ten grams of the limestone in small fragments are calcined in a platinum crucible at white heat; the loss p represents carbonic acid and moisture.

After this ten other grams of the pulverized stone are dissolved in dilute chlorhydric acid; carbonate of lime and of magnesia and the metallic oxides are dissolved; the silicate of alumina and silica remain untouched; the precipitate is received on a filter, washed with hot pure water, calcined, and weighed. The weight p' represents anhydrous silicate of alumina and the silica. The filtrate and washes after being mixed are evaporated at a low heat, in order to eliminate the excess of hydrochloric acid. This is redissolved in pure water, and is put in a glass-stopped bottle of a capacity of 2,000 grams. This is filled with pure saturated lime-water. After having been well shaken it is left standing, the oxides of iron, manganese, and magnesia are precipitated; the liquid is decanted by means of a syphon after the alkali reaction has been ascertained; the precipitate is received on a filter, washed, calcined, and weighed.

It is apparent that, if the weight p' is subtracted from the weight $(10-p)$ the difference $(10-p-p')$ represents the weight of the lime CaO : we find now, by calculation: 1st, the weight of q of carbonic acid which formed carbonate of lime with the quantity of lime found; and, 2d, the weight of the same acid which formed carbonate of magnesia with the precipitate p'' , given by the lime-water. The precipitate as magnesia counted $(q+q')$ represents thus the weight of the carbonic acid contained

in the limestone. Thus we have: $p-(q+q')$, representing H. O.; water combined with the hydrosilicate of alumina.

In order to ascertain the exact composition of the precipitate, it is necessary to analyze the precipitate produced by the lime-water, which is done in the following manner:

The precipitate is dissolved in diluted chlorhydric acid, and an excess of ammonia is added; alumina and the oxide of iron alone are precipitated. This is received on a filter; it is redissolved in dilute chlorhydric acid. To this solution is added caustic potash, which precipitates the oxide of iron, and alumina remains dissolved; the oxide of iron is well washed with hot water, calcined and weighed.

The alkaline containing the alumina is sursaturated with chlorhydric acid, and the alumina is precipitated, the solution being heated by carbonate of ammonia to separate the magnesia from the oxide of manganese; this is done by adding sulphhydrate of ammonia which precipitates the manganese as sulphide; then, after the separation of this sulphide, magnesia is precipitated by phosphate of ammonia as phosphas magnesiæ ammoniacale. This precipitate is received on a filter, washed and calcined, and from the hydrophosphate of magnesia obtained and weighed. We now calculate the quantity of magnesia, and, therefrom, the quantity of carbonate of magnesia contained in the limestone.

SYMBOLS AND COMPOSITION FROM WHICH TO CALCULATE.

Moisture, HO.		
Silica, Si; O ₃ .		
Sesquioxide of iron, Fe ₂ O ₃ .		
Alumina, AL ₂ O. ₃		
Carbonate of lime, CaO.CO ₂ .		
Carbonate of magnesia, MgO.CO ₂ .		
Residue and loss.		
Organic matter and other salts.		
Carbonate of lime contains {	CaO	56. 00
	C.O ₂	44. 00
		100. 00
Carbonate of magnesia contains {	MgO	45. 45
	C.O ₂	54. 55
		100. 00
Pyrophosphate of magnesia contains {	MGO	36. 04
	Po ₅	63. 96
		100. 00

The following exhibits represent the analysis of the limestone in the different quarries from which the Shepherdstown, Round Top, and Cumberland cements, respectively, are manufactured:

HYDRAULIC CEMENT. QUARRY No. 1.

[Result of analysis of limestone from the Shepherdstown "twelve strata."]

Number of stratum.	Moisture.	Silica and silicate of ammonia.	Sesquioxide of iron and alumina.	Carbonate of lime.	Carbonate of magnesia.	Loss, organic and other salts.	Remarks and thickness of strata.
No. 1.....	0.20	31.30	14.50	53.45	Traces.	0.55	4.00×31.30=125.20 silica and silicate.
No. 2 A.....	0.25	22.99	14.90	60.29	0.75	0.82	2.00×22.99= 45.98 silica and silicate.
No. 2 B.....	1.20	18.70	16.60	63.40	Traces.	0.10	0.6'×18.70= 9.35 silica and silicate.
No. 2 C.....	1.20	15.70	17.40	65.00	..do...	0.70	1'×15.70= 15.70 silica and silicate.
No. 3.....	1.25	23.64	15.34	59.67	..do...	0.10	2'×23.64= 47.28 silica and silicate.
No. 4.....	1.20	65.50	5.98	27.00	..do...	0.32	Discarded.
No. 5.....	0.60	51.60	11.07	36.13	..do...	0.60	1'×51.60= 51.60 silica and silicate.
No. 6 A.....	0.50	32.60	10.87	40.86	14.67	0.50	2'×32.60= 65.20 silica and silicate.
No. 6 B.....	0.25	43.70	5.05	26.60	23.30	1.10	2'×43.70= 87.40 silica and silicate.
No. 7.....	0.60	11.60	4.03	46.28	37.00	0.49	1.90'×11.60= 20.30 silica and silicate.
No. 8 A.....	0.30	41.15	5.65	31.45	20.89	0.56	0.8'×41.50= 27.42 silica and silicate.
No. 8 B.....	0.40	29.67	11.90	38.95	19.00	0.08	14.0'×29.67=118.68 silica and silicate.
							20.25 feet. 614.11 silica and silicate of alumina.

614.11+20.25=30.37 average percentage of silicate of alumina and silica contained in the eleven strata of this stone.

ROUND TOP HYDRAULIC CEMENT QUARRY.

[Result of analysis of eleven strata composing the quarry.]

Number of stratum.	Moisture.	Silicate of alumina and silica.	Sesquioxide of iron and alumina.	Carbonate of lime.	Carbonate of magnesia.	Loss.	Thickness of stratum.	Remarks.
No. 1.....	0.10	21.63	3.05	74.00	Traces..	1.22	7	Discarded.
No. 2.....	0.25	34.00	10.57	54.00	...do....	1.18	7	9×34 =306
No. 3.....	0.51	52.00	18.60	28.00	...do....	0.88	1	1×52 = 52
No. 4.....	0.03	26.10	4.00	67.95	...do....	1.92	7	7×26 =182
No. 5.....	0.10	31.37	5.80	62.20	...do....	0.52	1	1×31.37= 31.37
No. 6.....	0.60	79.30	6.83	13.00	...do....	0.27	2 6	Discarded.
No. 7.....	0.17	20.67	6.65	72.50	...do....	0.01	4	Do.
No. 8.....	0.23	60.78	8.53	29.00	...do....	1.46	1	1×60.78= 60.78
								19 feet. 632.15 silicate of alumina and silica.
No. 9.....	0.45	83.18	11.50	3.00	...do....	1.87	4	Discarded.
No. 10.....	0.05	5.00	4.70	90.00	...do....	0.25	1	Do.
No. 11.....	0.06	12.17	4.00	75.00	8.50	0.27	6	Do.

Six strata are discarded, and five are employed in the manufacture of this cement. The five strata represent 19 feet and 632 15 silicate of alumina and silica=33.27 average per cent. of silicate of alumina and silicate.

CUMBERLAND HYDRAULIC CEMENT QUARRY.

[Result of analysis of twelve strata composing the quarry.]

Number of strata.	Silica and silicate of alumina.	Carbonate of magnesia.	Carbonate of lime.	Sesquioxide of iron.	Moisture.	Loss.
Mixture of eleven strata.....	20.00	2.20	77.00	0.40	0.20	0.20
Twelfth upper stratum.....	45.00	2.00	52.25	0.60	0.10	0.05

32.50 average percentage of silica and silicate of alumina.

It has thus been shown that the Shepherdstown cement requires less silica and silicate of alumina for the manufacture of a strong, slow setting hydraulic cement than for the Cumberland and Round Top cement. This must be attributed to the different percentages of magnesia contained in the different stones.

Shepherdstown cement contains 5.74 per cent. of carbonate of magnesia.

Cumberland cement contains 2 per cent. of carbonate of magnesia.

Round Top cement contains traces only of carbonate of magnesia.

Shepherdstown cement requires 30.37 per cent. of silica and silicate of alumina.

Cumberland cement requires 32.50 per cent. of silica and silicate of alumina.

Round Top cement requires 33.27 per cent. of silica and silicate of alumina.

SHEPHERDSTOWN HYDRAULIC CEMENT.

Upon investigation and analysis of the strata from which this cement is made, I recommended the rejection of stratum No. 4, 5 feet thick. The cement manufactured from the other named strata will not set before 25 minutes in a temperature of from 70° to 80° Fahr.; and it may be classified among the "cold setting" cements. It generally gives good satisfaction; the average breakage 1"×1" at five days is 55 pounds; at thirty days, 250 pounds; and it breaks as high even as 350 pounds.

ROUND TOP HYDRAULIC CEMENT.

The quarry worked by the Round Top Hydraulic Cement Company is composed of eleven strata, which I analyzed and now report the result thereof.

In the manufacture of their hydraulic cement they, heretofore, used one stratum only, No. 4, 7 feet thick, and containing 26.10 per cent. of silica and silicate of alumina; while they rejected, as unfit for use, all the other ten strata. The cement thus prepared sets hard in two minutes, and was not, therefore, suitable for use in any of the public works. According to the results of my investigation, and having finished the analysis of their quarry, I advised the Round Top Hydraulic Cement Company to use in the manufacture of their cement the following strata, according to this formula, viz:

No. 2, 9 feet; No. 3, 1 foot; No. 4, 7 feet; No. 5, 1 foot; and No. 8, 1

foot; in all 5 strata, representing 19 feet in thickness, and containing an average percentage of 33.27 of silica and silicate of alumina.

The cement manufactured from the above-named five strata gives excellent results. It sets slow and cold in about twenty minutes, and gives a tensile strength which compares favorably with those of the Shepherdstown and Cumberland companies.

CUMBERLAND HYDRAULIC CEMENT.

The quarry of the Cumberland Hydraulic Cement Company is composed of twelve strata, of which eleven strata were heretofore used in the manufacture of their hydraulic cement, while the twelfth or upper stratum had been rejected as unfit for use.

The cement thus obtained sets hard in five minutes, and after being made into mortar mixed with sand it sets before the mason can put it into place; at the second setting it loses part of its hydraulic properties. For that reason the use of this class of cement was prohibited in the public works of the District of Columbia.

In compliance with your desire and orders I investigated the manufacture of the Cumberland hydraulic cement; and I learned the above facts through written communications and verbal explanations made by the owners and the superintendent of the quarry.

The analysis of the cement made from the eleventh strata and the analysis of the upper stratum calcined show evidences that these gentlemen had for years rejected a stone, the twelfth or upper stratum necessary to make a slow setting cement.

This rejected stone having been properly calcined, pulverized, and screened, was mixed in different proportions with the original Cumberland cement made from the eleventh strata, when I discovered that equal parts of the rejected stone mixed with equal parts of the eleven strata of cement produce a good slow setting hydraulic cement, giving about equal results in tensile strength with the Shepherdstown cement, with the difference that it sets somewhat quicker; yet it is slow enough to be used in all public works, provided the above formula is strictly adhered to.

In conclusion I desire, with many obligations, to acknowledge the assistance received from you, greatly facilitating my operations, and to remain,

Very respectfully, your obedient servant,

E. J. DE SMEDT,

Chemist, General Inspector of Asphalt Pavements.

Maj. WILLIAM J. TWINING, *United States Engineers,*
Engineer Commissioner, District of Columbia.

APPENDIX X 8.
TABLE A.—Sewer and miscellaneous contracts from July 1, 1880, to June 30, 1881.

Number of contract.	Date of contract.	Name of contractor.	Locality.			Description of work.	Cost.	Remarks.
			Street.	From—	To—			
177	1879. Apr. 7	B. J. Coyle, W. J. Whitthorne, D. B. Cooper.	.....	.....	.....	Construct an outlet at or near Seventeenth and B streets northwest, consisting of an arch of 24 feet span, supported by side walls upon pile foundations. Construct through the White Lot, from B street to Fifteenth and E streets northwest, a 3-ring brick sewer, 8 feet internal diameter, upon a hydraulic cement concrete foundation, with 5 manholes complete. Construct on Fifteenth street, from E street to New York avenue, and on New York avenue from Fifteenth to Thirteenth street, a 2-ring brick sewer, 6½ feet internal diameter, upon a hydraulic cement concrete foundation, with 11 manholes complete. Construct on New York avenue, from Thirteenth to Eleventh streets northwest, a 2-ring brick sewer, 5 feet internal diameter, with 4 manholes complete. Construct on New York avenue, from Eleventh to Ninth streets northwest, a 2-ring brick sewer, 4½ feet internal diameter, with 5 manholes complete. Construct on the south side of Mount Vernon Place, from Ninth to Seventh streets northwest, a 2-ring brick sewer, 3½ feet internal diameter, with 3 manholes complete. Construct the outlet section of Boundary street (intercepting) auxiliary sewer, and so much of the 20-foot sewer as may be required. Removing and transporting night-soil for the period of five years from November 3, 1879.	\$30, 659 97	Incomplete.
188 Ex. of 188	June 10 Nov. 8	J. G. Loane..... D. B. Cooper.....	Boundary.....	Fourteenth street east.	Eastern branch	.....	49, 751 71	Incomplete.
239	Oct. 31	F. M. Draney .....	.....	.....	.....	.....	.....	Do.

245	Oct. 30	D. B. Cooper	Boundary	Fourteenth street Eighth street east	Construct the second section Boundary street (intercepting) auxiliary sewer, 20 feet interior diameter, between Fourteenth and Eighth streets.	18,305 84	Do.
257	1880. June 24	William Ballantyne and R. C. Ballantyne.	Stationery		Furnish and deliver for year ending June 30, 1881.	Complete.	
259	June 26	H. I. Gregory	Stoves, &c.		do	Do.	
260	June 29	W. B. Williams	Furniture		do	Do.	
261	June 30	G. A. Whitaker	School books		do	Do.	
262	June 30	C. Becker	Saddlery		do	Do.	
263	June 30	W. B. Moses	Furniture		do	Do.	
264	July 1	J. L. Savage	Hardware		do	Do.	
265	July 2	F. Rives	Blank forms and printing		do	Do.	
266	July 6	Thomas K. Scheller and Ed. Stevens.	Drugs and chemicals		do	Do.	
267	July 6	Gustav & James Lansburgh.	Dry goods, &c		do	Do.	
268	July 6	Luther Martin and W. H. Butler.	Glass, paints, and various.		do	Do.	
269	July 6	F. Prott	Boots and shoes.		do	Do.	
270	July 7	Eureka Fire Hose Company.	Hose		do	Do.	
271	July 8	H. W. Hall	Groceries		do	Do.	
272	July 8	John McClelland	Plumbers' supplies, &c.		do	Do.	
273	July 8	Thomas Somerville	Plumbers' supplies, &c.		do	Do.	
274	July 9	R. C. Hewitt	Forage		do	Do.	
276	July 9	B. D. Carpenter	County		Prepare maps of Washington County, D. C.	Complete.	
277	July 10	Washington Brick Machine Company.	Bricks		Furnish and deliver for year ending June 30, 1881.	Complete.	
278	July 13	H. W. Blunt	Hydraulic cement		do	Do.	
280	July 13	George White and Chas. White, jr.	Lamp posts and miscellaneous castings.		do	Do.	
281	July 14	Samuel Emery	Construction material (curb, flag and traps).		Furnish and deliver for year ending June 30, 1881.	Do.	
283	July 14	J. T. Varnell	Fresh and salt meats.		do	Do.	
284	July 15	Z. Downing			Construct the south wing of the work-house in the city of Washington, D. C.	Do.	
285	July 17	G. A. Sheehan	Lumber and building material.		Furnish and deliver for the year ending June 30, 1881.	Complete.	
292	Aug. 10	John H. Howlett			Construct a brick school-house on lots 27, 28, 29, 30, 31, 32, 33, 34, 35, and 36, square 446, fronting on P street, n. w., in the city of Washington, D. C.		
294	Aug. 11	John G. Bright and R. T. Humphrey.			Construct a brick school-house upon south portion of square No. 359, on U street between 10th street and Vermont avenue, n. w., in the city of Washington, D. C.		
295	Aug. 12	Robert Downing.			Construct a brick school-house in Anacostia, D. C.		

TABLE A.—Sewer and miscellaneous contracts from July 1, 1880, to June 30, 1881—Continued.

Number of contract.	Date of contract.	Name of contractor.	Locality.		Description of work.	Cost.	Remarks.
			Street.	From— To—			
296	1880. Aug. 12	W. H. Mohler and Jas. Reynolds.	Boundary street.....	Eighth street w.	Ninth street w.	\$6,714 83	Construct an egg-shaped sewer, 3.5 by 5.25 feet inside measurement, including manholes and all appurtenances, complete.
			U street	Ninth street w.	Tenth street w.	.....	Construct an egg-shaped sewer 3.25 by 4.875 feet, inside measurement, including manholes and all appurtenances, complete.
			10th street.	U street north.	V street north ..	.....	Construct an egg-shaped sewer, 2.5 by 3.75 feet, inside measurement, including manholes and all appurtenances, complete.
			V street.....	Tenth street w.	Thirteenth street west.	.....	Construct an egg-shaped sewer, 2 by 3 feet, inside measurement, including manholes and all appurtenances complete. Lay an 18-inch pipe overflow. Lay a 12-inch pipe overflow. Take up 18-inch sewer pipe and haul same to property yard.
297	Aug 19	B. C. King .....	.....	.....	.....	.....	Construct a brick school-house upon a lot upon Bladensburg road in the county of Washington, D. C.
298	July 23	E. K. Johnson and A. L. Johnson.	Fuel.....	.....	.....	.....	Furnish and deliver for year ending June 30, 1881.
299	Aug. 23	E. N. Gray and Geo. E. Noyes.	Condenser and air-pump.	.....	.....	2,527 48	Construct surface condenser and air-pump, and connect the same with the high-service pumping engine in Georgetown, D. C.
305	Sept. 13	W. H. Mohler and Jas. Reynolds.	Virginia avenue south-west.	Tenth street w.	Eleventh street west.	599 90	Construct a circular pipe sewer, 24 inches interior diameter, upon a hydraulic cement concrete foundation.
306	Aug. 24	A. B. Kellogg.....	Trap-rock blocks .....	.....	.....	9,906 90	Furnish and deliver at the 6th street wharf in Washington, D. C., 147,000 trap-rock paving blocks, more or less.
311	Nov. 13	Potomac Terra-Cotta Co., by J. C. McKel- en, vice-president	Construction material— sewer pipe.	.....	.....	.....	Furnish and deliver for year ending June 30, 1881.
312	Nov. 4	Great Falls Ice Co., by J. Van Riswick, pres- ident.	Ice .....	.....	do .....	.....	do

313	Nov. 25	Vestry of Rock Creek Church parish, by E. J. Middleton, jr., secretary.				Remove the bodies from Holmead Cemetery to Rock Creek Cemetery.	1,450 00	
316	1881 Mar. 11	P. Maloney and John Cudmore.	Smithsonian grounds			Construct 12-inch pipe sewer through Smithsonian grounds.	1,313 17	Complete.
317	Mar. 14	W. H. Mohler and Jas. Reynolds.	Square 518.			Cleaning out old sewer, crossing square No. 518, and laying therein 18 and 24 inch pipe sewer, and filling old sewer with earth.	1,085 00	Do.
318	Mar. 15	A. Flynn	Squares 319 and 345			Cleaning out old sewer crossing squares 319 and 345, extending from 10th street to north side of H street, n. w., and laying therein a 15-inch pipe sewer, and filling old sewer with earth, complete.	1,697 00	Do.
324	May 5	Wm. J. Acker and Geo. Neitzey.	Boundary			Construct the 3d section of Boundary street (intercepting) auxiliary sewer, 20 feet interior diameter, from the east side of 12th street e. westwardly.	.....	Incomplete.
325	May 23	C. Thomas				Construct 2-story brick cottage on grounds of Industrial Home School, Georgetown, D. C.	.....	
326	June 4	F. M. Draney				Remove garbage. &c., for a period of 5 years from July 1, 1881.	.....	Incomplete.
							124,012 70	

APPENDIX X 9.

TABLE B.—*Contracts for improve-*
A.—ASPHALT

No. of contract.	Date.	Name of contractor.	Locality.		
			Street.	From—	To—
287	July 23, 1880	John S. Baldwin	Pennsylvania ave. 10th street west... A street north A street south 1st street, G't'n... Gay street, G't'n..	K street north F street north 1st street east 1st street east Fayette street High street	23d street west... G street north... 2d street east... 2d street east... High street..... Washingtonst..
290	July 23, 1880	Cranford & Filbert ..	K street north	18th street west...	23d street west....
293	Aug. 10, 1880	John S. Baldwin	Intersection of 3d street west.	.....	D street north
307	Sept. 20, 1880	Cranford & Filbert ..	1st street east 10th street west... 15th street west... Massachusetts av.	B street north M street north.... K street north 3d street west ...	C street north.... O street north.... Rhode Island ave 7th street west....
308	Sept. 21, 1881	J. S. Baldwin	E street south H street south I street north	4½ street west.... 4½ street west.... 17th street west...	7th street west... 7th street west... 18th street west }
309	Sept. 21, 1881	J. S. Baldwin	6 street west..... 12th street west... F street north	New York avenue N street north 17th street west...	Boundary street } O street north... } 18th street west }
323	Apr. 14, 1881	H. L. Cranford	M street north	6th street west....	New Jersey ave ...
322	Apr. 11, 1881	J. S. Baldwin	Indiana avenue... Louisiana avenue.	4th street west	5th street west....
Total .....			.....	.....	.....
B.—GRANITE					
256	June 23, 1880	W. R. Davies.....	3d street west.....	Pennsylvania ave.	D street north
275	July 13, 1880	Mohler & Reynolds..	11th street west...	F street north	G street north....

APPENDIX X 9.

ment and repair of streets.

PAVEMENTS.

Description and character of work.	No. of square yards.	Cost per square yard.	Contract work.	Extra work.	Cost of material.	Total cost.	Remarks.
Lay asphaltum pavement 2½ inches in thickness when compressed, with hydraulic cement concrete base 6 inches deep.	1, 225. 32	\$1 84½	\$2, 260 71	\$13 74	\$14 17	\$2, 288 62	South side; \$161.16 refunded by R. R. Co.
do	955. 71	1 79½	1, 717 89	55 65	1 34	1, 774 88	
do	2, 787. 64	1 84½	5, 143 19	84 84		5, 228 03	
do	2, 261. 15	1 84½	4, 171 82	80 46		4, 252 28	
do	5, 689. 29	1 84½	10, 510 96	239 70	8 93	10, 759 59	
do	3, 525. 12	1 84½	6, 512 66	86 69		6, 599 35	
do	11, 670. 78	1 83	21, 357 52	642 05	77 45	22, 077 02	Granite block pavement on south side of street between 20th and 21st street. (See granite block table.)
do	436. 23	1 79½	784 12		15 75	799 87	\$77.66 refunded by R. R. Co.
do	1, 986. 55	1 85	3, 675 12	60 96		3, 736 08	
do	3, 442. 85	1 85	6, 369 27	149 41		6, 518 68	
do	6, 920. 55	1 85	12, 803 02	193 78		12, 996 80	
do	3, 910. 36	1 85	7, 200 84	115 28		7, 316 12	South side of R. R. tracks; \$33.33 deducted for gravel; \$623.56 refunded by R. R. Co.
Grade, set curb, lay brick pavement, reduce the width of carriage way, and lay asphalt pavement.	3, 804. 77	1 85	8, 230 08	104 39	1, 337 96	9, 672 43	
do	3, 474. 11	1 85	9, 033 87	184 23	909 96	10, 128 06	
do	2, 672. 28	1 85	5, 595 30	*416 86	1, 415 93	7, 428 09	*Grading, setting curb, &c., included in this item; \$8.32 refunded by R. R. Co.
Lay asphaltum pavement 2½ inches in thickness when compressed, with hydraulic cement concrete base six (6) inches deep.	16, 636. 25	1 85	30, 777 06	799 28	68 80	31, 645 14	
do	1, 522. 36	1 85	2, 816 36	53 50	3 57	2, 873 43	
do	2, 855. 67	1 85	5, 282 99	89 24		5, 372 23	
do	5, 021. 33	1 85	11, 383 84	255 14	3, 525 94	15, 164 92	\$13.72 deducted for deficiency in paving cement. *25.2 square yards paid for by R. R. Co.
do	542. 68	50. 6					*339.53 square yards paid for by R. R. Co.
do	*25. 20						
do	3, 385. 45	1 85	6, 399 00	49 42	440 24	6, 888 66	
do	*339. 53						
do	329. 40	51. 7					
do	85, 420 48		162, 025, 62	3, 674 62	7, 820 04	173, 520 28	

BLOCK PAVEMENTS.

Lay granite block pavement with gravel and sand foundation, and filling of heated gravel and coal-tar paving cement in the joints.	4, 230. 54	\$0 55	\$2, 221 55	\$206 07	\$5, 090 00	\$7, 517 62	\$26.11 refunded by R. R. Co. Paving blocks furnished by the District. \$105.24 deducted for deficiency in paving cement.
do	1, 214. 22	54½	621 00	63 33	1, 635 62	2, 319 95	\$222.47 refunded by R. R. Co. Paving blocks furnished by the District. \$37.14 deducted for deficiency in paving cement.

TABLE B.—*Contracts for improvement*

B.—GRANITE

No. of contract.	Date.	Name of contractor.	Locality.		
			Street.	From—	To—
279	July 13, 1880	P. Maloney	B street north.....	1st street west	3d street west.....
282	July 14, 1880	Steep & Gannon	1st street east.....	B street south	C street south.....
290	July 23, 1880	Cranford & Filbert ..	K st. n. (south side)	20th street west...	21st street west...
300	Aug. 25, 1880	Mohler & Reynolds..	6th street west....	F street north.....	G street north.....
302	Sept. 7, 1880	Thomas Joyce	7th st. west (west side).	C street north.....	D street north.....
			11th street west... 19th street west... Congress street...	K street north..... Pennsylvania ave. Bridge street.....	O street north..... K street north Gay street
303	Sept. 7, 1880	John Cudmore	C street north	Delaware avenue .	1st street east.....
304	Sept. 11, 1880	F. M. Draney.....	Water street	12th street west...	13½ street west....
319	Apr. 9, 1881.	Thomas Joyce	2d street west..... 3d street west..... 8th street west....	Pennsylvania ave. Pennsylvania ave. Pennsylvania ave.	C street north... B street south .. E street north ..
320	Apr. 9, 1881	Thomas Joyce	Indiana avenue ... Louisiana avenue .	3d street west..... 4½ street west.....	4½ street west... 7th street west..

and repair of streets—Continued.

BLOCK PAVEMENTS.

Description and character of work.	No of square yards.	Cost per square yard.	Contract work.	Extra work.	Cost of material.	Total cost.	Remarks.
.....do	3,526.07	54	1,738 27	108 71	4,013 66	5,860 64	Paving blocks furnished by the District. \$20 deducted for deficiency in paving cement.
.....do	2,551.70	53	1,073 33	115 15	2,746 98	3,935 46	Paving blocks furnished by the District. \$29.60 deducted for deficiency in paving cement.
.....do	619.12	57	346 51	.....	766 95	1,113 45	Paving blocks furnished by the District. \$6.39 deducted for deficiency in paving cement.
.....do	975.18	54½	525 78	.....	1,139 63	1,665 41	Paving blocks furnished by the District. \$3.26 deducted for deficiency in paving cement.
.....do	506 60	49½	252 03	8 04	577 64	837 71	\$92.04 refunded by R. R. Co. Paving blocks furnished by the District.
.....do	4,326 06	49½	2,152 21	481 40	5,569 90	8,203 51	\$1,395.94 refunded by R. R. Co.
.....do	3,170.21	49½	1,577 17	494 68	4,636 69	6,708 54	Paving blocks furnished by the District.
.....do	1,742.38	49½	866 83	303 34	2,391 69	3,561 86	Paving blocks furnished by the District.
.....do	2,080.54	49½	1,001 87	95 83	2,649 11	3,746 81	Paving blocks furnished by the District.
Lay granite (2d class) block pavement with gravel and sand foundation, with filling of gravel.	3,110.38	27	839 77	309 27	3,676 65	4,825 69	Do.
Lay granite block pavement with gravel and sand foundation, and filling of heated gravel and coal-tar paving-cement in the joints.	3,963.27	46	1,698 90	162 14	5,275 66	7,136 70	Do.
	5,940.79	46	2,732 76	201 92	8,072 88	11,007 56	Do.
	3,652.52	46	1,665 99	106 84	5,141 85	6,914 68	Paving blocks furnished by the District. \$11.17 deducted for deficiency in paving cement.
Grade, set out curb, &c., and lay granite block pavement	*303.24	.....	.....	.....	.....	.....	Paving blocks furnished by the District. *303.24 square yards paid by R. R. Co. \$711.67 deducted for sodding and paving cement not furnished. †Grading, setting curb, &c., included in this item; of this amount \$4,602.96 is chargeable to appropriation for 1882.
	8,940.23	47	8,288 18	4,731 98	20,128 79	33,148 95	
	50,853.05	.....	27,602 15	7,388 70	73,513 70	108,504 55	

TABLE B.—*Contracts for improvement*

C.—COMPRESSED ASPHALT

No. of contract.	Date.	Name of contractor.	Location.		
			Street.	From—	To—
326	May 24, 1881	John Cudmore	H street north	Connecticut ave ..	Vermont avenue..

D.—OPENING AND

301	Sept. 3, 1880	Steep & Gannon	U street north....	14th street west...	16th street west...
321	Apr. 11, 1881	W. H. Mohler	5th street easti....	Stanton Place.....	K street north
333	June 16, 1881	J. Reynold	18th street north..	Boundary.....	S street north.....
	July 8, 1880	M. Shea.....	18th street west...	R street north.....	S street north.....
	June 22, 1881	M. Burke	New York avenue	1st street east.....	North Capitol st..

RECAPIT

A.—Asphalt pavement
B.—Granite block pavement.
C.—Asphalt block pavement
D.—Opening and grading streets.....
Total.....
Cost of inspection on above.....
Total

and repair of streets—Continued.

BLOCK PAVEMENT.

Description and character of work.	No. of square yards.	Cost per square yard.	Contract work.	Extra work.	Cost of material.	Total cost.	Remarks.
Lay compressed asphalt block pavement.	2,572.02	\$1 76	\$5,634 06	\$328 79	\$1,698 18	\$7,661 03	
	*316.91	.....	.....	.....	.....	.....	*316.91 square yards paid for by R. R. Co.
	2,888 93						

GRADING STREETS.

Grade, set curb, lay cobble-stone gutters, and brick pavement.	.....	.....	\$1,759 40	\$40 89	\$1,844 95	\$3,645 24	
Grade and gravel.....			4,176 00	37 44		4,213 88	
Grade			999 99			999 99	
Grade	10,350	\$0 10	1,035 00			1,035 00	Order of Commissioners D. C., July 8, 1880.
Grade	3,443.72	10	344 37			344 37	Order of Commissioners D. C., June 22, 1881.
	13,793.72		8,315 20	78 33	1,844 95	10,238 48	

ULATION.

Square yards.	Cost.
85,421.02	\$173,520 28
50,853.05	108,504 55
2,888.93	7,661 03
.....	10,238 48
139,163.00	299,924 34
	5,364 00
.....	305,288 34

TABLE B.—Contracts for improvement

E.—REPAIRS TO BITU

No. of contract.	Date.	Name of contractor.	Location.		
			Street.	From—	To—
288	July 23, 1880	J. S. Baldwin	G street south	4½ street west.....	11th street west...
291	July 23, 1880	Cranford & Filbert..	O street north	8th street west.....	13th street west...
289	July 23, 1880	Cranford & Filbert..	6th street.....	D street.....	E street.....
			P street.....	At bridge.....	
			Alley	Square 215	
			Alley	Square 159	
			New York avenue	9th street	13th street
			3d street	Maryland avenue ..	Indiana avenue...
			14th street.....	H street	New York avenue
			Massachusetts av.	Intersection 4th and 5th sts.	
			Q street.....	19th street	Connecticut ave ..
			Alley	Square 250	
			Alley.....	Square 248	
			G street north	5th street west....	7th street west....
			B street north	Delawareavenue..	1st street east
			Various streets.....		
321	June 10, 1881	Bailey & Fletcher....	Pa. av. (north side)	2d street east	8th street east
			Pa. av. (north side)	15th street west...	15½ street west
			Vermont avenue ..	K street west.....	Thomas Circle
			F street north.....	13th street west...	14th street west...
			H street north	15th street west...	Vermont avenue..

and repair of streets.—Continued.

MINOUS PAVEMENTS.

Description and character of work.	No. of square yards.	Cost per square yard.	Contract work.	Extra work.	Cost of material.	Total cost.	Remarks.
Resurface with asphalt wearing surface, 2½ inches in thickness when compressed.	10,006.79	\$1 29½	\$16,042 66	\$282 83	\$504 99	\$16,830 48	Includes base, binder, relaying granite block pavement, &c.
Resurface with asphalt, wearing surface 2½ inches in thickness when compressed.	4,755.55	1 27	7,422 80	206 67	8 93	7,638 40	Includes base, binder, relaying granite block pavements, &c.; \$472.93 refunded by R. R. Co.
Minor repairs	1,832.96	1 20	{	{	{	2,199 55	Expenditure in repairing pavement of D. W. Bailey, failing contractor. To be recovered by suit on his bond.
.....	255.63	63				160 04	
.....	1,216.88	63				766 63	
.....	150.55	63				94 84	
.....	914.33	63				576 02	
.....	1,264.49	63				796 62	
.....	2,352.66	63				1,482 17	
.....	537.29	1 20				644 74	
.....	632.61	1 20				759 13	
.....	671.40	1 20				805 68	
.....	280.00	63				176 40	
.....	111.00	63				69 93	
.....	749.52	1 20				974 37	
.....	259.95	1 20				337 93	
.....	17,300.37	{ 63 1 20				15,360 51	
Resurface with asphalt wearing surface.	2,014.76	1 15	2,316 97	105 55		2,422 50	Includes base, binder, cutting out, and other incidental work.
.....							Includes cost of cutting out. Incomplete.
.....							Do.
.....							Do.
.....							Do.
Total cost of inspection of above work.						2,256 00	
Total.....	45,306.74		25,782 43	595 05	513 92	54,320 95	

APPENDIX X 9—Continued.

F.—MISCELLANEOUS CONTRACTS.

No. of contract.	Date.	Name of contractor.	Character of work.	Total cost.
249	May 2, 1880	J. W. McKnight & Co.....	Furnish granite paving blocks.....	\$25,720 96
255	June 15, 1880	H. L. Cranford.....	Sprinkling, sweeping, and cleaning streets	26,506 17
258	June 25, 1880	R. Carns	Sprinkling, sweeping, and cleaning alleys	4,275 00
247	Feb. 27, 1880	Washington Gas Light Com- pany.	Light, extinguish, and furnish gas for street lamps of Washington for six months, from July 1, 1880, to January 1, 1881.	52,613 86
314	Feb. 9, 1881	Washington Gas Light Com- pany.	Light, extinguish, and furnish gas for street lamps of Washington for six months ending June 30, 1881.	52,377 64
248	Feb. 29, 1880	Georgetown Gas Company..	Light, extinguish, and furnish gas for street lamps of Georgetown from July 1, 1880, to January 1, 1881.	6,234 66
315	Mar. 8, 1881	Georgetown Gas Company..	Light, extinguish, and furnish gas for street lamps in Georgetown from Jan- uary 1, to June 30, 1881.	6,015 00
....	July 14, 1880	Richmond Granite Company*	Furnishing granite paving blocks.....	17,933 53
....	Oct. 2, 1880	Old Dominion Granite Com- pany.*	do	21,873 52
....	Jan. 14, 1881	J. B. Mitchell*	do	1,939 00
286	July 23, 1880	Joseph Paul	Furnish broken stone.	4,330 71
310	July 19, 1880	Pittsburgh Bridge Company	Reconstruct the M-street bridge over Rock Creek.	5,603 81

* Order of Commissioners, D. C.

APPENDIX X 10.

TABLE C.—Schedule of streets requiring immediate attention.

1. REPLACEMENT OF WOOD PAVEMENTS.

	Square yards.
New Jersey avenue from D to M streets	26,000
Massachusetts avenue from First to Third streets	4,000
Rhode Island avenue from Ninth to Thirteenth streets	9,000
New Hampshire avenue from M to Q streets	11,600
Pennsylvania avenue from circle to Twenty-sixth street	5,000
Fourteenth street west, from M to Boundary streets	15,000
Fifteenth street west, from Pennsylvania avenue to B street.	7,400
Second street east, from Pennsylvania avenue to D street	4,800
D street south, from Second to Third street east	1,700
Fourth street east, from East Capitol street to Pennsylvania avenue	4,600
Fifth street east, from East Capitol street to Pennsylvania avenue	5,400
M street north, from New Hampshire avenue to Twenty-sixth street	9,000
Thirty-third street west, from N to P streets	2,000
Twenty-ninth street west, from N to P streets	3,000
Total	108,500
108,500 square yards, at \$2.25, \$244,125.	

2. REPLACEMENT OF STONE PAVEMENTS.

Seventh street west, from Q to Boundary streets	8,400
8,400 square yards, at \$2.50, \$21,000.	

3. REPLACEMENT OF MACADAM.

Eleventh street southeast, from M to O streets	8,000
8,000 square yards, at \$2.50, \$20,000.	

4. LAYING NEW PAVEMENTS.

F street south, from South Capitol to Fourth-and-a-half streets 8, 300
8,300 square yards, at \$2.50, \$20,750.

5. GRADING AND REGULATING.

North Capitol street from D to K streets \$9, 000
R street north, from Sixteenth to Boundary streets 4, 000
S street north, from Sixteenth to Boundary streets 4, 000
U street north, from Sixteenth to Boundary streets 2, 000
V street north, from Sixteenth to Boundary streets 4, 000
W street north, from Fourteenth to Boundary streets 1, 000
Seventeenth street west, from Q to Boundary streets 3, 000
Eighteenth street west, from Q to Boundary streets 3, 000

Total 30, 000

6. RELAYING SIDEWALK ON NORTH SIDE OF PENNSYLVANIA AVENUE.

10,000 square yards, at \$2, \$20,000.

RECAPITULATION.

1. Replacement of wood pavements, 108,500 square yards 244, 125
2. Replacement of stone pavement, 8,400 square yards 21, 000
3. Replacement of macadam, 8,000 square yards 20, 000
4. Laying new pavements, 8,300 square yards 20, 750
5. Grading and regulating new streets 30, 000
6. Laying sidewalks 20, 000

Total \$355, 825

APPENDIX X 11.

TABLE D.—Schedule of work necessary for repair, improvement, and completion of sundry streets, avenues, and suburban roads in the District of Columbia January 1, 1882.

RECAPITULATION.

	Square yards of carriageway.	Estimated cost.
A. Replacing wood pavements.....	294, 757. 00	\$633, 627 55
B. Replacing cobble pavements.....	99, 713. 00	259, 847 15
C. Replacing macadam pavements.....	80, 939. 00	174, 018 85
D. Laying new pavements.....	118, 002. 00	305, 522 10
E. Regulating and grading unimproved streets.....	995, 188. 00	963, 919 80
F. Relaying sidewalks.....	25, 698. 60	51, 397 20
G. Improving suburban roadways, 97,115 linear feet .....	.....	194, 230 00
Total	1, 614, 297. 60	2, 582, 562 65

N street north.....	5th street west.....	9th street west.....	32	4,350	.....	.....	.....	.....	9,352 50
O street north.....	16th street west.....	17th street west.....	32	1,515	.....	.....	.....	.....	3,257 25
P street north.....	4th street west.....	18th street west.....	32	20,700	.....	.....	.....	.....	44,505 00
R street north.....	9th street west.....	14th street west.....	32	7,712	.....	.....	.....	.....	16,580 80
East Capitol street.....	4th street east (north side).	9th street east.....	18	3,686	.....	.....	.....	.....	7,924 90
Do.....	9th street east.....	11th street east.....	50	3,019	.....	.....	.....	.....	6,490 85
Pennsylvania avenue.....	Washington Circle (south side).	26th street west.....	33	5,085	.....	.....	.....	.....	10,932 75
Maryland avenue.....	1st street west.....	3d street west.....	60	4,713	.....	.....	.....	.....	10,132 95
Missouri avenue.....	3d street west.....	4½ street west.....	35	2,476	.....	.....	.....	.....	5,323 40
North Carolina avenue.....	4th street east.....	6th street east.....	40	2,089	.....	.....	.....	.....	4,491 35
New Hampshire avenue.....	M street north.....	Q street north.....	50	11,635	.....	.....	.....	.....	25,015 25
Massachusetts avenue.....	New Jersey avenue.....	3d street west.....	50	3,986	.....	.....	.....	.....	8,569 90
Do.....	4th street west (north side).	7th street west.....	18.5	3,077	.....	.....	.....	.....	6,615 55
New Jersey avenue.....	D street north.....	H street north.....	60	13,587	.....	.....	.....	.....	29,212 05
Do.....	H street north.....	O street north.....	50	17,700	.....	.....	.....	.....	38,055 00
Rhode Island avenue.....	5th street west.....	13th street west.....	50	16,792	.....	.....	.....	.....	36,102 80
Water street.....	L street south.....	M street south.....	60	2,695	.....	.....	.....	.....	5,794 25
C street north.....	1st street east.....	3d street east.....	38 & 32	3,605	.....	.....	.....	.....	7,750 75
Do.....	2d street west.....	4½ street west.....	30	3,113	.....	.....	.....	.....	6,692 95
1st street west.....	Defrees street.....	I street west.....	32	555	.....	.....	.....	.....	1,193 25
Do.....	G street.....	H street west.....	32	1,353	.....	.....	.....	.....	2,908 95
				294,757					633,627 55

The estimated cost of repaving includes all necessary incidental work, such as relaying curbs and sidewalks, grading, repairing drains, &c. PRICE IN

Schedule of work necessary for repair, improvement, and completion of sundry streets, &c,—Continued.

CLASS B.—REPLACEMENT OF COBBLE AND BLUE ROCK-PAVEMENTS.

Street.	From—	To—	Width of carriage-way.	Carriage-way, at \$2.15, square yards, at	Grading, cubic yards, at 20 cents.	Curb, linear feet, at 6 cents.	Flagging, linear feet.	Sidewalk, square yards, at 50 cents.	Old pavement removed, square yards, at 10 cents.	Total cost.
4½ street west.....	Missouri avenue.....	D street north.....	50	6,549	2,074	2,280	.....	2,922	8,711	\$15,963 65
5th street west.....	D street north.....	G street north.....	46	5,772	4,054	2,190	.....	2,933	6,254	15,447 90
6th street west.....	Missouri avenue.....	Louisiana avenue.....	32	4,766	2,830	1,310	.....	1,603	4,766	12,174 60
Do.....	G street north.....	New York avenue.....	60	8,204	8,890	3,500	.....	4,437	13,335	23,318 60
7th street west.....	Q street north.....	Boundary street.....	32	8,379	5,643	3,764	.....	4,616	8,379	20,728 54
10th street west.....	D street north.....	E street north.....	51	1,507	1,005	848	.....	1,130	2,402	4,297 13
14th street west.....	B street north.....	F street north.....	35	12,394	10,482	2,702	.....	3,602	15,723	32,278 92
8th street east.....	D street south.....	K street south.....	E. F. 50	9,488	3,461	4,059	.....	4,942	9,488	20,920 34
C street north.....	4½ street west.....	7th street west.....	55	4,772	1,590	628	.....	2,361	5,408	12,336 78
H street north.....	4th street west.....	do.....	40	7,000	7,466	3,030	.....	3,820	11,341	19,769 10
Do.....	14th street west.....	15th street west.....	35	2,464	1,643	792	.....	528	2,464	6,184 12
Do.....	Connecticut avenue.....	Pennsylvania ave.....	55	6,366	4,850	2,661	.....	3,348	9,081	17,020 26
I street north.....	8th street west.....	9th street west.....	35	788	690	481	.....	296	1,378	2,146 86
Do.....	10th street west.....	11th street west.....	32	889	1,037	530	.....	680	1,555	2,646 05
Do.....	18th street west.....	Pennsylvania ave.....	40	4,871	3,246	1,764	.....	2,491	4,871	13,030 85
K street north.....	North Capitol street.....	3d street west.....	50	10,304	6,868	3,395	.....	5,170	10,304	27,482 10
Indiana avenue.....	1st street west.....	do.....	60	5,200	7,770	1,960	.....	2,054	10,333	14,101 35
				99,713	73,599	35,894	.....	46,933	125,793	259,847 15

The estimated cost includes all necessary incidental work, such as narrowing the roadway, removing old material, laying new curbs and sidewalks, grading, repairing drains, &c.

CLASS C.—REPLACEMENT OF MACADAM PAVEMENTS.

Street.	From—	To—	Width of carriage-way.	Carriage-way, at \$2.15, square yards.	Grading, cubic yards.	Curb, linear feet.	Flagging, linear feet.	Sidewalk, square yards, at 50 cents.	Old pavement removed, square yards.	Total cost.
4th street east	Pennsylvania ave	C street south	35	350	.....	.....	.....	.....	.....	\$752 50
6th street east	do	K street south	35	9,843	.....	.....	.....	.....	.....	21,162 45
11th street east	do	Eastern Branch	56	23,022	.....	.....	.....	.....	.....	49,497 30
C street south	3d street east	4th street east	32	1,483	.....	.....	.....	.....	.....	3,188 45
I street west	Pennsylvania ave.	27th street west	40	14,120	.....	.....	.....	.....	.....	30,358 00
New York avenue	7th street west	New Jersey avenue	50	12,000	.....	.....	.....	.....	.....	25,800 00
Pennsylvania avenue	8th street east	11th street east	2 of 38	9,288	.....	.....	.....	.....	.....	19,969 20
New York avenue	New Jersey avenue	North Capitol street	50	10,833	.....	.....	.....	.....	.....	23,290 95
				80,939	.....	.....	.....	.....	.....	174,018 85

The estimated cost includes all necessary incidental work, such as removing old material, laying new curbs and sidewalks, repairing drains, grading, &c.

Schedule of work necessary for repair, improvement, and completion of sundry streets, &c.—Continued.

CLASS D.—LAYING NEW PAVEMENTS.

Street.	From—	To—	Width of carriage-way.	Carriage-way, at square yards, at \$2.15.	Grading, cubic yards, at 20 cents.	Curb, linear feet, at 50 cents.	Flagging, linear feet.	Sidewalk, square yards, at 50 cents.	Old pavement removed, square yards.	Total cost.
Water street.....	M street south.....	P street south.....	60	7,847	5,232	868	.....	964	.....	\$18,833 45
P street south.....	4½ street.....	Water street.....	32	1,209	806	379	.....	422	.....	3,161 05
M street south.....	do.....	do.....	32	3,740	2,483	1,441	.....	1,601	.....	10,058 60
H street south.....	7th street.....	do.....	32	3,371	2,246	1,710	.....	1,900	.....	9,501 85
G street south.....	1st street west.....	4½ street west.....	32	5,095	3,390	2,746	.....	3,051	.....	14,530 75
F street south.....	South Capitol street.....	do.....	32	8,288	4,600	3,654	.....	4,060	.....	22,596 20
3d street west.....	B street south.....	F street south.....	32	6,755	4,500	3,460	.....	3,844	.....	19,075 25
O street north.....	13th street west.....	Vermont avenue.....	32	471	.....	.....	.....	.....	.....	1,012 65
3d street east.....	Virginia avenue.....	L street.....	32	2,840	1,892	903	.....	1,003	.....	7,437 40
Virginia avenue.....	7th street west.....	South Capitol street.....	60	25,860	17,240	5,564	.....	7,418	.....	63,311 40
New Hampshire avenue.....	E street north.....	G street north.....	50	4,517	6,500	814	.....	1,085	.....	11,961 05
Vermont avenue.....	R street north.....	Boundary street.....	50	12,777	13,800	2,680	.....	3,573	.....	33,357 05
M street south.....	4th street east.....	11th street east.....	32	8,950	12,585	3,596	.....	3,995	.....	25,555 00
N street north.....	New Jersey avenue.....	5th street west.....	32	3,100	4,360	1,648	.....	1,831	.....	7,276 50
Q street north.....	7th street west.....	14th street west.....	32	10,155	3,385	.....	.....	.....	.....	22,510 25
Do.....	17th street west.....	19th street west.....	32	4,612	4,900	2,007	.....	2,230	.....	13,014 30
Do.....	20th street west.....	21st street west.....	32	1,450	960	930	.....	1,033	.....	4,291 00
18th street west.....	P street north.....	Q street north.....	32	1,703	1,120	1,016	.....	1,129	.....	3,661 45
H street south.....	1st street west.....	4½ street west.....	32	5,262	3,508	2,238	.....	2,486	.....	14,376 90
				118,002	93,507	35,654	.....	41,625	.....	305,522 10

The estimated cost includes grading, removing old material, laying curbs and sidewalks, and all other necessary incidental work.

CLASS E.—REGULATING AND GRADING UNIMPROVED STREETS.

Street.	From—	To—	Width of carriage way.	Carriage way, at 12 cents. square yard.	Grading, cubic yards, at 20 cents.	Old pavement removed, square yards.	Curb, linear feet, at 50 cents.	Flagging, linear feet, at 20 cents.	Sidewalks, square yards, at 50 cents.	Cobble, square yards, at 30 cents.	Total cost.
1st street west	I street north	Boundary	32	12,270	10,353	.....	6,308	6,308	7,009	2,102	\$12,093 70
2d street west	B street south	Virginia avenue	32	5,276	10,381	.....	2,200	2,200	2,444	5,733	5,690 22
3d street west	New Jersey ave	Boundary	32	7,666	8,634	.....	3,956	3,956	4,395	1,315	8,403 52
Do	F street south	N street south	32	9,877	6,558	.....	5,066	5,066	5,517	1,688	9,814 54
4th street west	O street north	Boundary	32	5,251	2,960	.....	2,832	2,832	3,146	1,944	5,060 72
8th street west	D street south	Water street	32	8,338	4,690	.....	4,274	4,274	4,749	1,424	7,732 06
9th street west	do	do	32	7,200	4,050	.....	3,698	3,698	4,109	1,232	7,076 50
10th street west	S street north	Boundary	32	8,117	6,849	.....	4,056	4,056	4,506	1,352	7,841 64
12th street west	Vermont avenue	do	32	10,343	8,727	.....	5,366	5,366	5,851	1,788	10,204 66
13th street west	Maryland avenue	Water street	32	1,582	3,560	.....	891	891	990	297	2,108 64
Do	Corcoran street	Boundary	32	10,958	6,164	.....	5,576	5,576	6,195	1,858	10,229 66
13th street west	Maryland avenue	Water street	32	832	1,872	.....	363	363	403	121	966 14
17th street west	Q street north	Boundary	32	9,454	5,318	.....	4,466	4,466	4,962	1,488	7,251 68
18th street west	do	do	32	6,300	5,516	.....	3,429	3,429	3,810	1,143	6,507 40
21st street west	do	do	32	3,484	1,960	.....	1,624	1,624	1,810	543	3,015 78
22d street west	do	do	32	6,684	15,000	.....	3,762	3,762	4,180	1,254	8,901 68
25th street west	M street north	Q street north	32	5,681	3,202	.....	2,546	2,546	2,829	848	4,773 22
27th street west	G street north	M street north	32	5,856	3,294	.....	3,400	3,400	3,777	1,133	5,969 92
33d street west	do	L street north	32	9,000	8,100	.....	4,892	4,892	5,435	1,630	9,330 90
34th street west	M street north	T street north	30	12,733	7,640	.....	7,040	7,040	7,822	2,346	12,424 16
35th street west	do	32d street	30	2,667	1,800	.....	1,080	1,080	1,200	360	2,144 04
1st street east	Prospect street	O street north	40	13,465	22,722	.....	6,563	6,563	7,281	2,187	14,832 20
Do	G street north	Boundary	32	6,379	17,940	.....	3,200	3,200	3,555	1,066	8,594 18
2d street east	Canal street	N street south	32	8,021	18,048	.....	4,118	4,118	4,575	1,372	10,153 32
Do	H street north	Boundary	32	6,453	9,075	.....	2,198	2,198	2,442	732	5,568 56
3d street east	D street south	I street south	32	14,972	25,266	.....	7,807	7,807	8,674	2,602	17,431 84
4th street east	E street north	Boundary	32	14,163	31,972	.....	7,418	7,418	8,242	2,472	18,149 16
5th street east	do	do	32	6,709	18,870	.....	3,570	3,570	3,966	1,190	9,418 08
6th street east	H street north	K street north	32	2,994	4,210	.....	1,508	1,508	1,675	502	3,244 98
7th street east	Massachusetts ave	Maryland avenue	32	2,841	3,995	.....	1,633	1,633	1,814	544	3,353 22
Do	D street south	M street south	32	10,084	17,016	.....	4,450	4,450	4,944	1,483	10,645 18
9th street east	Pennsylvania ave	do	32	8,900	15,210	.....	3,760	3,760	4,177	1,253	9,207 48
Do	East Capitol	H street north	32	13,468	18,940	.....	6,772	6,772	7,524	2,257	14,583 66
10th street east	M street south	do	32	30,507	42,745	.....	2,372	2,372	2,635	790	13,850 34
11th street east	East Capitol	Boundary	32	17,387	24,450	.....	8,750	8,750	9,722	2,916	18,937 24
A street north	4th street east	9th street east	32	8,381	14,142	.....	2,658	2,658	2,953	886	7,437 02
C street north	6th street east	11th street east	32	6,997	8,840	.....	3,600	3,600	4,000	1,200	7,487 64
D street north	New Jersey ave	do	32	19,652	27,635	.....	8,100	8,100	9,000	2,700	18,865 24

Schedule of work necessary for repair, improvement, and completion of sundry streets, &c—Continued.

CLASS E.—REGULATING AND GRADING UNIMPROVED STREETS.

Street.	From—	To—	Width of carriage-way.	Carriage-way, square yards.	Grading, cubic yards.	Old pavement removed, square yards.	Curb, linear feet.	Flagging, linear feet.	Sidewalk, square yards.	Cobble, square yards.	Total cost.
E street north.....	New Jersey ave	Delaware avenue	32	4,800	6,650	.....	1,723	1,723	1,914	574	\$4,241 30
G street north.....	North Capitol	8th street east	32	14,265	20,060	.....	5,524	5,524	6,137	1,841	13,211 40
I street north.....	1st street east	7th street east	32	9,875	13,830	.....	5,050	5,050	5,611	1,683	10,796 40
L street north.....	New Jersey ave	Boundary	32	21,350	18,012	.....	10,987	10,987	12,248	3,662	21,057 90
N street north.....	do	do	32	14,763	12,456	.....	7,762	7,762	8,624	2,587	14,784 26
Do	21st street west	27th street west	32	9,525	8,037	.....	5,102	5,102	5,669	1,700	*44,666 30
O street north.....	20th street west	Rock Creek	32	4,888	9,776	.....	.....	.....	.....	.....	2,541 76
Do	4th street west	Boundary	32	12,814	10,812	.....	6,830	6,830	7,588	2,276	12,957 88
P street north.....	New Jersey ave	North Capitol	32	7,200	6,075	.....	3,792	3,792	4,213	1,264	7,219 10
Do	32d street west	35th street west	30	3,477	3,129	.....	1,906	1,906	2,117	635	3,626 24
Q street north.....	New Jersey ave	North Capitol	32	6,756	5,400	.....	3,542	3,542	3,935	1,180	6,691 62
Do	32d street west	35th street west	30	3,987	3,588	.....	2,200	2,200	2,444	733	4,077 94
R street north.....	16th street west	Boundary	32	7,449	6,285	.....	3,654	3,654	4,060	1,218	7,004 08
Do	32d street west	35th street west	30	3,507	3,156	.....	1,924	1,924	2,137	641	3,659 64
S street north.....	16th street west	Boundary	32	10,229	8,631	.....	5,222	5,222	5,802	1,740	10,032 08
Do	32d street west	35th street west	30	2,687	2,418	.....	1,492	1,492	1,646	497	3,064 34
T street north.....	Vermont avenue	Boundary	32	5,824	5,014	.....	2,952	2,952	3,280	984	5,703 28
Do	32d street west	35th street west	30	2,527	2,274	.....	1,156	1,156	1,284	385	2,324 74
U street north.....	14th street west	Boundary	32	8,078	4,544	.....	4,000	4,000	4,444	1,333	7,300 06
Do	16th street west	do	32	4,540	1,910	.....	2,240	2,240	2,488	746	3,962 60
V street north.....	Boundary	do	32	15,182	8,540	.....	7,760	7,760	8,622	2,586	14,148 64
W street north.....	do	do	32	9,685	5,448	.....	5,046	5,046	5,606	1,682	9,091 10
Olive street.....	28th street west	Rock Creek	30	1,987	1,688	.....	1,102	1,102	1,224	366	2,069 24
Prospect street.....	Potomac street	35th street west	30	4,700	7,050	.....	2,580	2,580	2,866	860	5,071 00
B street south.....	8th street east	11th street east	32	3,474	5,862	.....	1,736	1,736	1,928	578	3,247 48
C street south.....	7th street west	New Jersey ave	32	14,485	20,370	.....	6,856	6,856	7,616	2,285	15,104 90
Do	7th street east	11th street east	32	4,693	6,600	.....	2,350	2,350	2,611	783	5,068 56
D street south.....	4½ street	New Jersey ave	32	9,469	20,850	.....	4,396	4,396	4,884	1,465	9,264 98
Do	3d street east	6th street east	32	2,151	1,500	.....	1,060	1,060	1,177	353	1,372 52
Do	9th street east	11th street east	32	2,251	4,000	.....	1,120	1,120	1,244	373	2,588 02
E street south.....	4½ street	do	32	25,751	35,650	.....	10,966	10,966	12,184	3,655	20,200 42
Do	7th street west	Water street	32	8,874	15,144	.....	4,486	4,486	4,984	1,495	10,174 34
G street south.....	1st street west	South Capitol	32	3,143	7,072	.....	1,378	1,378	1,531	459	3,659 36
Do	1st street east	11th street east	32	9,148	20,684	.....	4,604	4,604	5,115	1,534	9,633 46
H street south.....	1st street west	Canal	32	2,726	6,212	.....	1,497	1,497	1,663	499	3,598 62
I street south.....	Water	11th street east	32	32,821	55,386	.....	14,114	14,114	15,682	4,704	30,619 22

K street south	do	do	32	31,787	44,700	13,500	13,500	15,000	4,500	31,054 44
L street south	do	do	32	30,745	43,235	12,900	12,900	14,333	4,300	29,822 90
North Capitol	D street north	K street north	50	21,336	19,130	6,952	6,952	9,269	2,317	16,572 72
South Capitol	N street south	Eastern Branch	50	13,167	16,590	4,156	4,156	5,541	1,385	11,013 24
East Capitol	11th street east	13th street east	{ 30 } { 30 }	6,113	4,585	1,200	1,200	1,600	400	3,410 66
Boundary	6th street west	15th street east	40	52,444	70,800	20,800	20,800	23,111	6,933	48,643 68
Delaware avenue	E street north	Boundary	50	30,078	54,140	9,000	9,000	12,000	3,000	27,637 36
Do	B street south	O street south	50	30,767	33,228	9,000	9,000	12,000	3,000	23,537 64
New Hampshire avenue	U street north	Boundary	50	9,050	9,774	2,858	2,858	3,810	952	7,232 00
New Jersey avenue	O street north	do	50	12,494	13,494	3,500	3,500	4,666	1,166	9,330 88
South Carolina avenue	2d street east	11th street east	50	20,006	28,808	5,000	5,000	6,666	1,666	15,328 52
Virginia avenue	South Capitol	do	50	29,439	31,794	7,000	7,000	9,666	2,333	20,324 38
Corcoran	16th street west	17th street west	30	1,727	2,130	852	852	947	284	1,788 34
New York avenue	North Capitol	Boundary	50	7,222	6,500	2,240	2,240	2,986	746	5,451 44
Massachusetts avenue	13th street east	19th street east	50	21,728	23,466	6,438	6,438	8,584	2,146	16,743 46
Canal	B street south	South Capitol	50	11,110	15,000	3,700	3,700	4,930	1,233	9,758 10
Virginia avenue	G street	27th street west	50	6,666	12,000	1,700	1,700	1,888	566	5,503 72
K street north	7th street east	Boundary	50	9,366	12,000	3,052	3,052	3,391	1,017	7,650 92
				995,188	1,263,191	417,259	417,259	477,284	139,051	963,919 80

* Including \$35,000 for bridge over Rock Creek.

The estimated cost includes grading, laying curbs, gutters, and sidewalks, graveling the roadway, constructing drains, and all other necessary incidental work.

CLASS F.—RELAYING SIDEWALKS WITH FLAG OR ARTIFICIAL STONE.

Pennsylvania avenue	1st street west	15th street west	At \$2 25,698 ⁶ / ₁₀				\$51,397 20
---------------------	-----------------	------------------	---	--	--	--	-------------

CLASS G.—OPENING AND IMPROVING SUBURBAN STREETS.

Columbia Heights			16,509				\$33,018 00
Meridian Hill			16,550				33,100 00
Mount Pleasant			14,569				29,138 00
Widow's Mite			2,772				5,544 00
Pleasant Plains			1,933				3,866 00
Todd, Wright, and Brown			14,380				28,760 00
Howard University			12,163				24,326 00
Keating subdivision			1,489				2,978 00
Anacostia			16,750				33,500 00
			*97,115				194,230 00

*Linear feet, at \$2.

APPENDIX X 12.

TABLE E.—Statement of character and extent of street pavements in Washington and Georgetown July 1, 1881.

WASHINGTON.

Street.	From—	To—	Carriage-way.						Remarks.	
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.		Gravel.	Unimproved.
			Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
North Capitol	B street north	C street street north	50							
Do	C street north	Boundary	50							(Gravel from K to Boundary.
South Capitol	B street south	M street south	50							ary.
Do	M street south	N street south	50							
Do	N street south	River	50					3, 243		
1st street east	B street north	B street south	50	8, 657						13, 330
Do	do	C street north	35	1, 986						
Do	C street north	K street north	35							
Do	K street north	Boundary	35						9, 994	
Do	B street south	C street south	38							9, 431
Do	C street south	Canal	35		2, 151					
Do	Canal	River	35						5, 639	
1st street west	Pennsylvania ave.	Indiana avenue	56 }							
Do	Indiana avenue	F street north	40 }		8, 332*			4, 055		
Do	G street north	H street north	32			1, 355				
Do	H street north	I street north	32	700		487				
Do	I street north	K street north	32						1, 124	
Do	K street north	Boundary	32							11, 022
Do	Pennsylvania ave.	Maryland avenue	53			2, 167		1, 133		
Do	Maryland avenue	M street south	35		17, 920					
Do	M street south	N street south	34					2, 314		
Do	N street south	River	35							14, 723
2d street east	Pennsylvania ave.	Maryland avenue	32			4, 768				
Do	Maryland avenue	H street north	32						9, 707	
Do	H street north	Boundary	32							7, 929
Do	Pennsylvania ave.	D street south	{ 32 }		5, 991					
			{ 35 }							

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Street.	From—	To—	Carriage-way.							Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.		Unimproved.
6th street west	Louisiana ave	F street north	Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
Do	F street north	G street north	32	4,300						
Do	G street north	Massachusetts ave	32	975						
Do	Massachusetts ave	New York ave	35					3,680		
Do	New York ave	Boundary	35	16,636				4,000		
Do	Pennsylvania ave	D street south	60					13,283		
Do	D street south	Water street	40		23,179					
7th street east	East Capitol	Massachusetts ave	32						2,400	
Do	Massachusetts ave	Boundary	32						12,100	2,500
Do	East Capitol	Pennsylvania ave	32						5,831	
Do	Pennsylvania ave	D street south	32			890				
Do	D street south	M street south	32							
7th street west (west side).	Market Space	D street north	18		506*					
7th street west	Pennsylvania ave	do	51	1,579				755		
Do	D street north	Q street north	51		26,023*			10,861		
Do	Q street north	Boundary	51					10,900		
Do	Pennsylvania ave	Water street	51		24,107			10,577		
8th street east.	East Capitol	I street north	40						16,489	
Do	I street north	Boundary	40							5,444
Do	East Capitol	Pennsylvania ave	40						5,511	
Do	Pennsylvania ave	D street south	55				1,209			
Do	D street south	K street south	55		10,124					
Do	K street south	M street south	55				2,984			
8th street west	C street north	F street north	51				3,652			
Do	F street north	Mt. Vernon Place	51	1,963						
Do	G street north	Crossing	30				3,502			
Do	Mt. Vernon Place	L street north	30	833			1,193			
Do	L street north		30							

Unimproved from Maryland avenue to Massachusetts avenue.
O. c. walk, curb, and gutter, A to Pennsylvania avenue.

O. c. walk, curb, and gutter.

Cobble bet. R. R. tracks.
Do.

3,400 yds, bet. R. R. tracks.
Cobble bet. R. R. tracks.

O. c. walk, curb, and gutter.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Street.	From—	To—	Carriage-way.						Remarks.	
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.		Gravel.	Unimproved.
12th street west	E street north	F street north	Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
Do	F street north	N street north	38		1,627*					
Do	N street north	Rhode Island ave.	32	13,039						
Do	Rhode Island ave.	Boundary	32	1,522		3,249				
Do	B street north	Water street	40		17,306					11,947
13th street east	East Capitol	Boundary	32							14,898
Do	do	River	32							14,820
13th street west	Pennsylvania ave.	E street north	40	685*						
Do	E street north	F street north	40		1,741*					
Do	F street north	K street north	40	7,772						
Do	B street north	Pennsylvania ave.	40	4,807*						
Do	K street north	Circle	32	8,090						
Do	Circle	Boundary	32							13,145
Do	B street south	Maryland avenue	40	5,706						1,636
Do	Maryland avenue	Water street	40					5,005		
13½ street west	Pennsylvania ave.	B street north	35					4,291		
Do	B street south	Maryland avenue	32							
14th street east	East Capitol	Boundary	35							11,698
Do	East Capitol	River	32		7,841					14,791
14th street west	B street north	B street south	40					11,634		
Do	do	F street north	70							
Do	F street north	Thomas Circle	70	16,655*						
14th street west (east side).	Thomas Circle	Boundary		17,120*						
14th street west (west side).	do	do				15,251				
14th street west	B street south	Water street	40					6,764		12,196
15th street east	East Capitol	Boundary	32							13,796
Do	do	River	32							
15th street west	Pennsylvania ave.	B street north	43			7,342				
Do	do	New York ave.	70	4,478				1,322		
Do	New York ave	H street north	50	7,005						
Do	H street north	K street north	40							
										Cobble bet. R. R. tracks.

Cobble bet. R. R. tracks.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Carriage-way.											Remarks.
Street.	From—	To—	Width.	Asphalt or concrete.		Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.		Unimproved.
				Sq. yds.	Sq. yds.						Sq. yds.
22d street west	E street north	G street north	32					2,927			
Do	G street north	Pennsylvania ave	32	4,641							
Do	K street north	M street north	32				3,122				
Do	M street north	Boundary	32								6,660
23d street east	East Capitol	C street north	32								4,196
Do	do	B street south	32								2,560
23d street west	Virginia avenue	E street north	32							1,778	
Do	E street north	Upper Water	32								3,413
Do	F street north	Pennsylvania ave	32					5,067			
Do	Pennsylvania ave	M street north	32				2,752				
Do	M street north	Rock Creek	32								3,699
24th street east	East Capitol	C street north	32								4,196
Do	do	B street south	32								2,560
24th street west	E street north	G street north	32								2,069
Do	G street north	Pennsylvania ave	32					5,192			
Do	Pennsylvania ave	M street north	32					2,540			
Do	M street north	Rock Creek	32								4,128
25th street west	Virginia avenue	River	32								5,735
Do	Pennsylvania ave	Virginia avenue	32					945			3,733
Do	do	Rock Creek	30								5,440
26th street west	G street north	D street north	32							3,378	
Do	G street north	K street north	32					5,042			
Do	K street north	Pennsylvania ave	32				1,725				
Do	Pennsylvania ave	M street north	32	919				505			8,651
27th street west	E street north	L street north	32								
East Capitol	1st street east	9th street east	50	10,511				6,044			
Do	4th street east	11th street east	50				6,705				
Do	11th street east	Eastern Branch	50								25,822
A street north	1st street east	2d street east	35	2,788			2,491				

Cobble from K to Penn. ave.

Cobble bet. R. R. tracks.

Concrete full width to 4th, south side to 9th, cobble bet. R. R. tracks.

Full width 9th to 11th, north side 4th to 9th.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	C o b b l e and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
D street south	2d street east	do	35			3,263					
Do	3d street east	6th street east	35							3,267	
Do	6th street east	7th street east	35				1,890				
Do	7th street east	8th street east	30			931					
Do	8th street east	19th street east	32							17,810	
D street north	North Capitol	New Jersey ave	35							1,556	
Do	New Jersey ave	3d street west	36	3,818			2,266				
Do	6th street west	10th street west	36		6,278*						
Do	12th street west	14th street west	40				3,614				
Do	14th street west	15th street west	40			7,961					
Do	17th street west	23d street west	35								
Do	South Capitol	4½ street west	35							8,273	
Do	4½ street west	14th street west	35							7,800	
E street north	North Capitol	Delaware avenue	35				10,815				
Do	Delaware avenue	Maryland avenue	35								
Do	Maryland avenue	15 street east	35						12,810		
E street south	South Capitol	New Jersey ave	35							9,042	
Do	1st street east	6th street east	35							2,334	
Do	6th street east	19th street east	35							10,920	
			35							17,686	
										O. c. walk, curb, and gutter from 6th to Pennsylvania avenue.	
E street north	North Capitol	New Jersey ave	35							2,140	
Do	New Jersey ave	4th street west	35	4,932*							
Do	5th street west	11th street west	40	9,823*							
Do	11th street west	13th street west	40		2,487*						
Do	13th street west	Pennsylvania ave	41, 48	1,093*							
Do	14th street west	15th street west	40			1,965					
Do	17th street west	19th street west	32				4,637				
Do	19th street west	Virginia avenue	32				5,831				
Do	Virginia avenue	23d street west	32						1,600		
Do	23d street west	27th street west	32							5,871	
E street south	South Capitol	14th street west	35	4,285						26,764	
										O. c. walk, curb, and gutter from 2d to 11th street.	

F street north	North Capitol	Maryland avenue	35				20,000		
Do	Maryland avenue	15th street east	35					6,200	
Do	North Capitol	New Jersey ave	35				2,625		
Do	New Jersey ave	4th street west	35						
Do	5th street west	7th street west	51	4,382*		1,419			
Do	7th street west	9th street west	57	5,090*	527*	771			
Do	9th street west	15th street west	60	1,913*		4,100			
Do	17th street west	18th street west	40	11,684					
Do	18th street west	22d street west	40	2,856					
Do	22d street west	27th street west	32	8,790					
F street south	South Capitol	4½ street west	35					6,947	
Do	4½ street west	7th street west	35					7,775	
Do	7th street west	Water street	35	4,206		6,838			
G street north	North Capitol	15th street east	35						
G street south	3d street east	17th street east	35				9,825		15,175
			35						20,906
G street north	North Capitol	1st street west	35						
Do	1st street west	7th street west	35						
Do	7th street west	15th street west	40	8,683		1,890			
Do	17th street west	22d street west	36	15,097					
Do	22 street west	27th street west	36	10,275					
G street south	South Capitol	4½ street west	35		9,511				8,167
Do	4½ street west	11th street west	35						
H street north	North Capitol	1st street east	56	10,982					
Do	1st street east	15th street east	56		5,667		1,748		
Do	North Capitol	1st street west	50			42,244			
Do	1st street west	4th street west	56		8,337*		3,307		
Do	3d street west	7th street west	56						
Do	7th street west	13th street west	35	9,067					
Do	13th street west	14th street west	40	2,144					
Do	14th street west	15th street west	56			2,308			
Do	15th street west	15½ street west	56	1,729					
Do	Vermont avenue	19th street west	56	2,889		5,544			
Do	Pennsylvania ave	22d street west	32	6,493					
Do	22d street west	27th street west	32			9,422			
H street south	South Capitol	Water street	35	4,327					5,920
I street north	North Capitol	Boundary	35				11,931		11,435
I street south	South Capitol	Georgia avenue	35						
I street north	North Capitol	New Jersey ave	35	4,557					17,365
Do	New Jersey ave	Massachusetts ave	35			8,710			
Do	5th street west	8th street west	32	4,210*					
Do	8th street west	9th street west	32			1,484			

Streets marked thus * have been paved since July 1, 1878.

Cobble between R. R. tracks.
Do.
Do.

O. c. walk, curb, and gutter.

Gravel from 6th to 13th.
O. c. walk, curb, and gutter
from 11th to 14th street.
O. c. walk, curb, and gutter
on south side.
Cobble between R. R. tracks.

O. c. walk, curb, and gutter
from 2d to 4½ streets.

Cobble between R. R. tracks.
11,529 yards bet. R. R. tracks

Cobble between R. R. tracks.
Wood between 3d and 4th,
north of Mass. avenue.

Gravel from 7th to Bound-
ary and N. Capitol to 1st
street east; south side o.
c. walk, curb; and gutter
to 7th street.
O. c. walk, curb, and gutter
3d to 5th and 7th to 11th.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Street.	From—	To—	Carriage-way.						Remarks.	
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.		Gravel.	Unimproved.
			Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
I street north.	9th street west.	10th street west.	32	2,090*						
Do.	10th street west.	11th street west.	32				1,244			
Do.	11th street west.	15th street west.	40	8,332						
Do.	15th street west.	Vermont avenue.	56 }	8,332						
Do.	Vermont avenue.	17th street west.	40 }							
Do.	17th street west.	18th street west.	40	2,672						
Do.	18th street west.	19th street west.	40				2,115			
Do.	19th street west.	20th street west.	40		2,006					
Do.	20th street west.	Pennsylvania ave.	40				2,596			
Do.	Pennsylvania ave.	26th street west.	40					13,832		
Do.	South Capitol.	Water street.	35							12,776
										O. c. walk, curb, and gutter, 4½ to 7th street.
K street north.	North Capitol.	7th street east.	50						19,556	
Do.	7th street east.	Boundary.	50							8,378
K street south.	South Capitol.	Canal.	35							4,938
Do.	Canal.	7th street east.	60							7,430
										Baltimore and Potomac R. R. tracks 20 ft. wide.
Do.	7th street east.	Eastern Branch.	35							O. c. walk, curb, and gutter from 7th to 14th street.
										12,130
K street north.	North Capitol.	3 street west.	50				8,083			
Do.	3d street west.	7th street west.	50	8,384						
Do.	7th street west.	9th st. west { N. S. S. S.	30 }	5,418						
			53-5 }							
Do.	9th street west.	18th street west.	50	27,551						
Do.	18th street west.	Pennsylvania ave.	50	12,290						
Do.	24th street west.	28th street west.	50		12,571					
Do.	South Capitol.	Water street.	35							11,155
										O. c. walk, curb, and gutter from 1st to 2d street.
L street north.	North Capitol.	Boundary.	32							15,154
L street south.	South Capitol.	Eastern Branch.	35							24,234
										O. c. walk, curb, and gutter from 3d to 5th, and 7th to 9th street.
L street north.	North Capitol.	New Jersey ave.	32							
Do.	New Jersey ave.	4th street west.	32	2,072					8,090	
										O. c. walk, curb, and gutter.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

WASHINGTON.

Street.	From—	To—	Width.	Carriage-way.						Remarks.	
				Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.		Unimproved.
				Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
Q street north.....	Boundary.....	5th street west.....	32								
Do.....	5th street west.....	14th street west.....	32							4,750	
Do.....	14th street west.....	16th street west.....	32	4,806					11,776		
Do.....	16th street west.....	19th street west.....	32							6,048	
Do.....	19th street west.....	20th street west.....	32	862							
Do.....	21st street west.....	22d street west.....	32	863							
Q street south.....	South Capitol.....	Arsenal.....	30							4,367	
R street north.....	Boundary.....	9th street west.....	32						9,383		
Do.....	9th street west.....	14th street west.....	32			7,712					
Do.....	14th street west.....	16th street west.....	32	4,502							
Do.....	16th street west.....	Boundary.....	32							9,967	
R street south.....	South Capitol.....	Arsenal.....	30							4,900	
S street north.....	New Jersey ave.....	Vermont avenue.....	32						8,117		
Do.....	Vermont avenue.....	16th street west.....	32	8,811							
Do.....	16th street west.....	Boundary.....	32							8,967	O. c. walk, curb, and gutter, 17th to 19th streets.
S street south.....	South Capitol.....	Arsenal.....	30							4,900	
T street north.....	Boundary.....	Vermont avenue.....	32						5,170		
Do.....	Vermont avenue.....	Boundary.....	32					14,707			
T street south.....	1st street west.....	Arsenal.....	30							3,620	
U street north.....	Vermont avenue.....	Boundary.....	32						3,136	12,618	
U street south.....	Arsenal.....	Eastern Branch.....	30							3,633	
V street north.....	Vermont avenue.....	Boundary.....	32							13,335	
V street south.....	Arsenal.....	Eastern Branch.....	30							3,134	
W street north.....	Boundary.....	Boundary.....	32							10,310	
Boundary.....	Massachusetts ave..	9th street west.....	46					43,414			
Do.....	7th street west.....	do.....	45		2,304						
Do.....	6th street west.....	7th street west.....	46					3,019			
Do.....	6th street west.....	15th street east.....	46								
Connecticut avenue.	H street north.....	I street north.....	50	2,210							
Do.....	K street north.....	Dupont Circle.....	50	14,050			4,946				
Do.....	Dupont Circle.....	Boundary.....	50	7,780							
Delaware avenue.....	B street north.....	C street north.....	50		2,056						

										Cobble bet. R. R. tracks. Do.
Iowa Circle.....	do.....	13th and P streets..	50	8, 838						
Scott Square.....	do.....	16th and N streets..		12, 560						
Dupont Circle.....	do.....	19th and P streets..	70	7, 260			250			
Washington Circle..	do.....	23d and K streets..	70	8, 450			1, 100			
Opera Space.....	do.....	9th and C streets..			600					
Carroll street.....	1st street east	2d street east	30					2, 030		
Corcoran street.....	13th street west....	14th street west....	30	2, 067						
Do	14th street west....	17th street west....	24	2, 129				1, 134	1, 134	
Defrees street.....	1st street west....	North Capitol	22.5					1, 937		
De Sales street.....	17th street west....	Connecticut avenue..	40	2, 493						
Franklin street.....	New Jersey avenue..	5th street west.....	30					1, 667		
French street.....	9th street west....	10th street west....	30					1, 633		
Grant Place.....	do	do	24	1, 435						
Highland Terrace ..	14th street west ...	15th street west....	21.5	1, 248						
Jackson street	North Capitol	1st street east	20				1, 738			
Jefferson street	Connecticut avenue..	19th street west	27					800		
Kingman court.....	P street north	Q street north	30					1, 500		
Madison street	M street north	N street north	30					1, 666		
Marion street	P street north	R street north	30-32					2, 600		
Myrtle street.....	North Capitol	1st street east	20					1, 738		
Pierce street	14th street west	15th street west....	30	2, 154						
Riggs street.....	13th street west....	14th street west....	30					1, 845		
Sampson street.....	14th street west....	17th street west....	24	2, 674				1, 440		
Sunderland Place ..	New Hampshire av.. enue.	20th street west ...	30					770		
Union street	M street south	O street south	40				5, 333			
Washington street ..	4th street west	5th street west	35					3, 850		
Water street	7th street west	12th street west....	50		16, 858					
Do	12th street west....	14th street west....	50		2, 827					2, 729
Do	7th street west....	6th street west	50			3, 682				
Do	6th street west	O street south	50			3, 359				

GEORGETOWN.

[illegible]

Streets marked thus * have been paved since July 1, 1878.

Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1881—Continued.

GEORGETOWN.

Street.	From—	To—	Carriage-way.							Remarks.	
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.		Unimproved.
			Feet.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	Sq. yds.	
2d street	Fayette	Warren	30								O. c. walk, curb, and gutter.
Dumbarton street	Rock Creek	Monroe	30						2, 283	1, 166	
Do	Monroe	Greene	30					1, 843			
Do	Greene	Congress	30					444		2, 072	Cobble bet. R. R. tracks.
Do	Congress	High	30					1, 458			
Beall	High	Montgomery	30						6, 083		
Do	Montgomery	Rock Creek	30							3, 166	
3d street	High	Warren	30							6, 434	
West	Rock Creek	Montgomery	40 }					4, 113			O. c. walk, curb, and gutter, from High to Fayette.
Do	Montgomery	High	30 }		*10, 880						Cobble bet. R. R. tracks.
4th street	High	Fayette	30							3, 800	O. c. walk, curb, and gutter, from High to Frederick.
Stoddard	do	Montgomery	30							6, 867	O. c. curb, walk, and gutter part of way on south side.
5th street	do	Fayette	30							3, 365	O. c. walk, curb, and gutter, from High to Frederick.
6th street	Market	do	30						2, 577		
7th street	High	do	30							2, 067	
8th street	do	do	30								
Road	do	Montgomery	30						9, 000		
Monroe	Bridge	West	30								
Montgomery	do	do	30					5, 479		4, 750	
Do	West	Road	30						4, 610		
Greene	Bridge	Water	30				4, 183	2, 919			
Do	do	West	30								
Do	West	Road	30								
Washington	Bridge	Water	30					2, 733		4, 610	O. c. walk, curb, and gutter.
Do	do	Gay	30		*2, 121						
Do	Gay	West	30							2, 750	Do.
Do	West	Stoddard	30								
Do	Stoddard	Road	30						1, 310		Do.
Do	Stoddard	Road	30							2, 260	
Jefferson	Bridge	Water	32					2, 839			

APPENDIX X 13.

CURRENT REPAIRS OF STREETS AND ALLEYS.

TABLE F.—Statement showing character of work and cost of labor and material from June 30, 1880, to July 1, 1881.

	Labor.	Material.	Total.
Salaries and expense of office.....	\$2,900 00		\$3,900 00
Miscellaneous expenses, inspectors, &c.....	3,711 71		3,711 71
Cleaning traps and basins.....	4,193 23		4,193 23
Repairing traps and basins.....	1,424 37	\$631 33	2,055 70
Cleaning and repairing sewers.....	8,311 25	856 20	9,167 45
Repairing streets, avenues, and alleys.....	28,761 87	3,402 85	32,164 72
Repairing bridges (material).....		907 80	907 80
Total.....	50,302 43	5,798 18	56,100 61

Statement showing amount and kind of work done in various localities other than ordinary repairs.

Cobble-stone pavement, new.....	square yards..	9,546
Gutter-stone, laid, new.....	feet..	2,826
Curbing set, new.....	do.....	162
Sewer laid, 6-inch, new.....	do.....	1,186
Sewer laid, 8-inch, new.....	do.....	67
Sewer laid, 12-inch, new.....	do.....	981
Sewer trap, new.....	Number..	16
Hydrant and pump-drops, new.....	do.....	30
Brick pavement, new.....	square yards..	956

ORDINARY REPAIRS.

Cobble pavement relaid.....	square yards..	20,145
Curb reset.....	feet..	2,405
Gutter-stone reset.....	do.....	11,624
Brick pavement relaid.....	square yards..	4,255
Sewer-traps repaired.....	Number..	75
Streets graveled 9 inches.....	square yards..	65,100

There has been a large amount of miscellaneous work done during the year, in cleaning gutters, removing snow and ice from carriage-ways, and in attending to the sanitary complaints of the health office, as well as the casual repairs of dangerous holes, washouts, and obstructions which came under my personal observation.

Very respectfully,

E. M. CHAPIN,
Superintendent Repairs.

SEPTEMBER 15, 1881.

APPENDIX X 14.

TABLE G.—Statement of expenditures on various roads and streets in the county, from July 1, 1880, to June 30, 1881.

EASTERN DISTRICT.

Anacostia.....	\$26 80	Race-course.....	\$17 75
Addison Hill.....	411 20	Ridge.....	44 45
Bowen.....	24 25	Sheridan avenue.....	141 94
Benning's.....	224 75	Sumner street.....	147 75
Good Hope.....	180 04	Suit.....	40 25
Giesboro'.....	117 55	Talbert.....	103 67
Hamilton.....	196 77	Washington street.....	46 25
Howardstown.....	9 75	Wheeler road.....	40 10
Harrison street.....	70 10	Walker road.....	76 00
Livingston.....	30 00	Material.....	321 32
Monroe.....	223 75	Salary.....	900 00
Morris.....	97 00		
Nichols avenue.....	290 60	Total.....	3,838 79
River.....	56 75		

WESTERN DISTRICT.

Blagden's Mill.....	\$23 21	Military	\$16 90
Broad Branch	50 25	New Cut	425 75
Brookeville	276 50	Pierce's Mill.....	191 50
Chappell	29 00	River road	23 89
Canal	127 50	Rend Lane	22 00
Daniel's	268 50	Swartz	17 50
Foxhall Lane	206 25	Tunlaw	234 25
Grant	713 00	Material	152 51
Loughborough	50 50	Salary	900 00
Milk House Ford	3 50		
Murdock Mill	447 25	Total	4,184 76

MIDDLE DISTRICT.

Anacostia road	\$37 50	Old Bladensburg	\$286 37
Benning's	1,168 82	Pierce's Mill.....	584 36
Bates	140 00	Pomeroy street	44 88
Bunker Hill	33 25	Patterson avenue	235 17
Brentwood	358 49	Piney Branch	694 49
Bladensburg	92 37	Queen's Chapel.....	344 12
Corcoran	56 70	Riggs	15 75
Columbia	21 00	Rock Creek Church	179 25
Fourteenth street	220 87	Sargent	169 50
Fifth street extension	80 00	Sligo Mill	29 50
Fair Grounds road.....	1 00	Sherman avenue.....	75 25
Grant avenue	24 00	Seventh street	267 99
Glenwood	4 25	Sumner street	302 25
Howard street	65 24	Sandy Spring	5 50
Magnolia avenue	35 13	Trumbull street	170 00
Military	46 00	Woodley Lane	277 25
Milk House Ford	34 87	Material	1,005 93
Mount Pleasant	1,208 11	Salary	900 00
Mathew's	4 00		
New York avenue	61 50	Total	9,244 65

RECAPITULATION.

Eastern road-district	\$3,838 79
Western road-district	4,184 76
Middle road-district	9,244 65
Seventh-street road (special appropriation)	14,999 75
Total	32,267 95

APPENDIX X 15.

TABLE H.—SPECIAL ASSESSMENT DIVISION.

APPENDIX 1.—Table showing revised assessment of streets, avenues, and roads in the District of Columbia.

No.	By whom assessed.	Street or avenue.	From—	To—	Amount of original assessment.	Net amount of revised assessment	Decrease.	Increase.
39	Board of public works.	7th street road.			\$46,918 42	\$11,726 98	\$35,191 44	
40	do	Columbia turnpike.			14,222 03		14,222 02	
100	do	M street (sewer)			13,518 92	13,518 92		
95	Commissioners.	6th street east.	Pennsylvania avenue.	K street south.	14,096 93	7,787 12	6,309 81	
104	do	K street north.	Pennsylvania avenue cir.	Rock Creek.	22,419 04	17,756 78	4,662 26	
106	do	Q street north.	New Jersey avenue.	14th street.	15,033 15	10,315 63	4,717 52	
110	do	B street north.	4th street east.	11th street east.	4,866 33	3,923 52	942 81	
112	do	K street north.	North Capitol.	1st street east.	8,059 83	7,877 48	182 35	
113	do	5th street east.	Maryland avenue.	Pennsylvania avenue.	11,449 74	9,424 83	2,024 91	
114	do	N street south.	James Creek canal.	3d street east.	7,205 34	10,369 09		\$3,163 75
117	do	S street north.	14th street west.	Boundary east.	23,839 19	18,606 63	5,232 56	
119	do	1st street east.	C street south.	F street south.	4,849 77	6,591 32		1,741 55
120	do	O street north.	New Hampshire avenue.	22d street west.	2,347 80	1,881 41	466 39	
122	do	Massachusetts avenue.	New Jersey avenue.	11th street east.	13,205 50	18,832 94		5,627 44
123	do	Beall street.	High street.	Monroe street.	7,473 59	8,245 96		772 37
124	do	Washington street.	Bridge street.	Water street.	6,336 65	3,670 32	2,666 33	
125	do	W street north.	14th street west.	15th street west.	679 47	520 44		
126	do	K street south.	James Creek canal.	4th street west.	2,397 79		2,397 79	
127	do	10th street east.	East Capitol.	I street north.	10,168 49	7,611 83		
128	do	L street north.	26th street west.	27th street west.	1,638 96	1,261 74	2,556 66	
129	do	L street south.	6th street west.	7th street west.	731 40	300 10	377 22	
130	do	G street north.	22d street west.	Potomac River.	11,565 51	11,025 67	431 30	
132	do	H street north.	do	Potomac River.	5,843 90	6,936 94	539 83	
133	do	Virginia avenue.	17th street west.	Rock Creek.	11,015 80	7,176 38		1,093 04
134	do	19th street east.	B street south.	E street south.	786 14		3,839 42	
135	do	E street south.	8th street east to 9th street east, and from 11th street east to Congressional Cemetery.		2,783 81	5,778 15	786 14	2,994 34
136	do	K street south.	6th street west.	7th street west.	265 16	621 26		358 10
138	do	N street south.	21st street west.	25th street west.	1,172 73	829 90	342 83	
140	do	E street south.	3d street west.	6th street west.	1,332 62	2,009 46		676 84
141	do	do	7th street west.	14th street west.	858 55	817 67	40 88	
142	do	P street south.	4th street west.	Potomac River.	155 32	295 86		140 54
143	do	Jefferson street.	Bridge street.	Water street.	4,525 74	3,131 44	1,394 30	
144	do	I street south.	6th street east.	8th street east.	494 45	1,489 47		995 02
145	do	South Carolina avenue.	New Jersey avenue.	do	2,346 38	1,571 64	774 74	

146	do	D street north	4th street east	15th street east	10, 079 81	4, 606 39	5, 473 42
147	do	I street south	3d street west	Water street	2, 576 69	784 07	1, 792 62
148	do	C street north	6th street east	15th street east	7, 913 80	4, 140 26	3, 773 54
149	do	H street south	3d street west	10th street west	4, 415 44	1, 331 22	3, 084 22
150	do	T street north	Vermont avenue	Boundary west	31, 522 11	23, 519 37	8, 002 74
151	do	Sampson street	14th street west	17th street west	6, 633 51	3, 559 36	3, 074 15
152	do	Franklin street	New Jersey avenue	5th street west	2, 481 34	1, 496 80	984 54
153	do	Carroll street southeast	4 1/2 street west	Water street	1, 464 53	1, 904 02	439 49
154	do	O street south	New Jersey avenue	11th street east	2, 161 83	2, 274 15	112 32
155	do	North Carolina avenue	D street south	Water street	7, 052 88	4, 075 33	2, 977 55
156	do	10th street west	P street north	Q street north	8, 100 42	6, 342 36	1, 758 06
157	do	12th street west	P street circle	do	1, 291 80	780 10	511 70
158	do	Vermont avenue	12th street west	15th street west	1, 148 30	607 81	540 49
159	do	Ohio avenue	North Capitol street	1st street east	4, 553 44	5, 352 74	799 30
160	do	Myrtle street	Washington street	Congress street	1, 737 96	1, 198 77	539 19
161	do	Stoddard street	1st street west	North Capitol street	2, 245 81	1, 229 47	1, 016 34
162	do	Defrees street	B street north	B street south	1, 684 08	166 48	1, 517 60
163	do	14th street west	do	do			
164	do	7th street west	do	do			
166	do	14th street west	do	Ohio avenue	1, 564 50	2, 112 15	547 65
167	do	A street north	2d street east	4th street east	3, 833 17	2, 800 51	1, 032 66
168	do	School street	G street south	K street south	298 41	388 16	89 75
169	do	South Capitol street	4th street west	5th street west	476 75	545 29	68 54
170	do	Washington street	4 1/2 street west	6th street west	1, 397 69	1, 099 13	298 56
171	do	West Capitol street	Bridge street	Water street	3, 748 36	2, 891 01	857 35
173	do	Green street	East Capitol street	I street north	11, 723 56	8, 973 68	2, 749 88
175	do	8th street east	High street	Lingan street	18, 086 23	2, 308 76	15, 777 47
176	do	Water street	D street north	G street north	405 96	885 62	
177	do	5th street west	4 1/2 street west	7th street west	122 73	290 68	479 66
178	do	M street south	B street south	Water street	22, 919 11	19, 664 42	167 95
179	do	11th street west	Maryland avenue	C street south	67 38	92 62	25 24
180	do	10th street west	New Jersey avenue	6th street east	1, 473 30	1, 721 23	247 93
181	do	Virginia avenue	Bridge street	Beall street	634 08	379 17	
182	do	Monroe street	New York avenue	Boundary street	3, 714 68	3, 176 62	254 91
183	do	1st street west	Pennsylvania avenue	Georgia avenue	2, 543 43	3, 739 77	538 06
184	do	12th street east	D street south	Canal	526 86	419 28	1, 196 34
185	do	South Capitol street	B street south	Boundary street	5, 791 17	4, 942 15	
186	do	14th street east	13th street west	14th street west	178 37	283 56	105 19
187	do	U street north	South Capitol street	7th street east	7, 574 41	10, 669 46	3, 095 05
188	do	D street south	3d street east	4th street east	187 86	357 85	169 99
189	do	F street north	4th street east	5th street east	43 93	249 87	205 94
190	do	C street north	P street north	Q street north	159 70	253 49	93 79
191	do	18th street west	New York avenue	Canal	1, 912 07	1, 968 08	56 01
192	do	19th street west	4 1/2 street west	6th street west	128 82	352 17	223 35
193	do	Virginia avenue	R street north	T street north	668 02	621 54	46 48
194	do	10th street west	S street north	Boundary street	559 78	962 36	402 58
195	do	New Hampshire avenue	T street north	V street north	329 14	620 34	291 20
196	do	13th street west	6th street east	8th street east	480 08	1, 216 16	736 08
197	do	M street south	4th street west	5th street west	771 07	728 49	42 58
198	do	I street north	13th street west	17th street west	541 95	856 36	
199	do	V street north	Pennsylvania avenue	M street south	3, 128 57	3, 861 11	314 14
200	do	7th street east					732

Table showing revised assessment of streets, avenues, &c.—Continued.

No.	By whom assessed.	Street or avenue.	From—	To—	Amount of original assessment.	Net amount of revised assessment.	Decrease.	Increase.
201	Commissioners	B street south	1st street west	Maryland avenue	\$3,085 94	\$3,033 49	\$52 00	
202	do	New York avenue	17th street west	23d street west	11,300 86	7,062 43	4,238 43	
204	do	3d street west	E street south	M street south	1,868 50	1,851 98	16 52	
205	do	E street north	North Capitol street	1st street east	456 27	1,955 50		\$499 23
206	do	23d street west	M street north	N street north	638 71	897 61		258 90
207	do	11th street east	Massachusetts avenue	H street north	7,967 73	7,709 70	258 03	
208	do	9th street east	C street north	Maryland avenue	7,702 17	453 33	248 84	
209	do	I street north	New Jersey avenue	North Capitol street	7,825 19	7,336 03	489 16	
210	do	24th street west	Virginia avenue	Observatory	466 77	667 64		200 87
211	do	25th street west	Pennsylvania avenue	M street north	861 87	934 96		73 09
212	do	D street south	7th street east	8th street east	570 54	512 33	58 21	
213	do	G street south	3d street west	4½ street west	843 79	816 49	27 30	
214	do	South Capitol street	B street south	D street south	1,164 42	1,512 79		348 37
215	do	G street south	9th street east	10th street east	1,187 37	1,356 91		169 54
216	do	Pierce street	New Jersey avenue	North Capitol street	892 45		892 45	
217	do	N street south	6th street west	Potomac River	64 56	122 98		58 42
218	do	8th street east	C street south	D street south	227 85	404 27		176 42
219	do	9th street east	East Capitol street	Massachusetts avenue	313 52	303 05	10 47	
220	do	25th street west	K street north	H street north	1,047 02	346 30	700 72	
221	do	3d street west	Maryland avenue	D street south	363 59	706 78		343 19
222	do	5th street east	do	H street north	6,574 89	507 97	6,066 92	
223	do	A street south	3d street east	9th street east	8,660 04	4,943 51	3,716 53	
224	do	5th street west	O street north	Boundary street	8,636 42	5,746 92	2,889 50	
225	do	13th street west	N street north	Q street north, including P street circle.	7,163 06	7,465 97		302 91
227	do	R street north	17th street west	20th street west	1,416 77	1,812 59		395 82
228	do	10th street east	Pennsylvania avenue	North Carolina avenue	2,257 00	2,730 60		473 60
229	do	8th street west	F street south	Water street	3,337 03	2,734 99	602 04	
230	do	10th street west	E street north	F street north	3,019 93	731 11	2,288 82	
231	do	F street south	3d street west	4½ street west	1,017 20	894 28	122 92	
232	do	23d street west	Virginia avenue	Potomac River	2,241 50	484 32	1,757 18	
233	do	21st street west	do	B street north	409 40	666 29		256 89
234	do	1st street east	I street north	K street north	253 48	460 15		206 67
235	do	T street north	8th street west	9th street west	218 46	416 12		197 66
236	do	N street north	New Jersey avenue	North Capitol street	2,137 27	902 25	1 235 02	
237	do	L street south	3d street west	4½ street west	1,199 43	383 68		184 25
238	do	3d street east	K street north	Boundary street	1,538 88	1,367 59	171 29	
239	do	27th street west	do	L street north	2,026 92	1,768 04	258 88	
240	do	4th street east	Maryland avenue	Boundary street	18,972 13	9,041 44	9,930 69	
241	do	21st street west	Q street north	R street north	584 94	401 10	183 84	
242	do	I street south	2d street east	4th street east	465 33	927 57		462 24
243	do	G street north	do	5th street east	792 98	579 33	213 65	

244	do	Pennsylvania avenue	8th street east	11th street east	1,511 46	3,949 95	2,438 49
245	do	I street north	North Capitol street	1st street east	839 91	1,293 77	453 86
246	do	2d street west	H street north	New Jersey avenue	1,267 46	610 98	
247	do	20th street west	Virginia avenue	E street north	619 08	338 87	
248	do	Delaware avenue	I street north	K street north	2,779 07	750 39	
249	do	25th street west	G street north	Potomac River	2,752 81		
250	do	M street north	New York avenue	1st street east	5,413 76		
251	do	9th street west	D street south	Water street	1,025 25	2,113 94	1,088 69
252	do	3d street east	Maryland avenue	E street north	9,303 03	3,792 02	
253	do	E street north	17th street west	Potomac River	10,699 71	9,197 02	
254	do	4th street east	North Carolina avenue	do	20,637 52	17,481 78	
255	do	G street north	North Capitol street	1st street west	350 00	769 51	419 51
256	do	2d street west	Maryland avenue	B street south	778 83	718 49	
257	do	C street south	1st street west	15th street west	4,610 81	3,945 21	
258	do	Jefferson street	Uniontown, county		654 90		
259	do	Stanton avenue	Barry farm, county		1,904 94		
260	do	Washington street	Uniontown, county		118 23		
261	do	Filmore street	do		1,276 69		
262	do	14th street road			8,177 45	2,044 36	
263	do	Woodley laneroad, county			3,031 14		
264	do	Pomeroy street, county			3,433 71		
265	do	Trumbull street, county			144 42		
266	do	12th street west	B street north	B street south			
267	do	Pierce street	Uniontown, county		753 05	753 05	
268	do	Columbia road			11,715 63	3,613 14	
269	do	Jackson street	Uniontown, county		509 04	8,102 49	
270	do	B street south	{ 2d street east	6th street east		509 04	
271	do		{ 11th street east	12th street east			
272	do	Linnean Hill road, county		Potomac river	4,824 89	5,705 30	880 41
273	do	26th street west	K street north	do	3,332 52		
274	do	F street north	Virginia avenue	Massachusetts avenue	11,130 83	5,192 77	
275	do	22d street west	P street north	4th street east	1,551 90		
276	do	B street north	1st street east	6th street east	705 02	887 41	182 39
277	do	E street south	do		6,553 85	7,509 10	955 25
278	do	Mount Pleasant street, county			2,080 80	2,511 30	430 50
279	do	Nichols avenue, county			331 44		
280	do	8th street extended	Boundary street	Grant avenue	12,473 42	12,473 42	
281	do	D street north	New Jersey avenue	3d street east	5,807 36	5,170 85	
282	do	2d street east	Maryland avenue	G street north	1,792 94	1,843 90	50 96
283	do	4th street west	New York avenue	O street north	4,236 95	1,971 67	
284	do	C street south	South Capitol street	3d street east	4,441 12	3,571 93	
285	do	I street south	3d street west	7th street west	2,984 72	1,876 65	
286	do	19th street road, county			281 90	637 06	355 16
287	do	Grant avenue, county			3,054 83		
288	do	D street south			501 82		
289	do	C street south	3d street west	4 1/2 street west	506 00	680 95	174 95
290	do	South Carolina avenue	6th street east	19th street east	2,497 90	1,791 89	
291	do	4th street west	10th street east	11th street east	112 27	213 86	101 59
292	do	D street south	Q street north	R street north	234 96	447 61	212 65
293	do	Lincoln avenue, county	4 1/2 street west	14th street west	12,798 49	13,528 94	730 45
294	do	1st street east	I street south	O street south	2,683 28	2,683 28	
295	do				1,798 50	1,754 04	
296	do					44 40	

Table showing revised assessments of streets, avenues, &c.—Continued.

No.	By whom assessed.	Street or avenue.	From—	To—	Amount of original assessment.	Net amount of revised assessment.	Decrease.	Increase.
297	Commissioners	S street north	16th street west	Boundary street	\$611 64	\$1,702 77		\$1,091 13
298	do	Canal street	G street south	I street south	389 28	347 13	\$42 15	
299	do	2d street east	North Carolina avenue	Virginia avenue	1,265 96		1,265 96	
300	do	Stanton road, county			837 59		837 59	
301	do	Livingston road, county						
302	do	Good Hope road, county						
303	do	Sumner avenue, county			5,359 96		5,359 96	
304	do	Pomeroy avenue, county			111 30		111 30	
305	do	Boundary street			308 95		308 95	
306	do	F street north	9th street west	Massachusetts avenue	41,311 77	19,596 53	21,715 24	
308	do	Pierce road, county	New Jersey avenue	North Capitol street	1,473 47	993 77	479 70	
309	do	Spring road, county						
310	do	New Cut road, county						
311	do	Queen's Chapel road, county						
312	do	Benning's Bridge road, county						
313	do	Sherman street	18th street west	19th street west	131 25		131 25	
314	do	Sheridan avenue, county			1,831 55		1,831 55	
315	do	Howard avenue	Mount Pleasant, county		430 26		430 26	
316	do	Anacostia road, county			3,730 76		3,730 76	
317	do	Hamilton road, county						
318	do	Conduit road, county			1,667 45		1,667 45	
319	do	Brentwood road, county						
320	do	12th street west	N street north	O street north	97 14		97 14	
321	do	North Capitol street	B street north	Boundary	9,974 13		9,974 13	
322	do	Rock Creek Ford road, county						
323	do	College street, county						
324	do	Hickman street, county			1,082 36		1,082 36	
325	do	Dunbarton street	High street		105 00		105 00	
326	do	Howard avenue	Barry farm, county	Congress street	3,268 64	2,877 21	391 43	
327	do	River road, county			355 85		355 85	
328	do	6th street west	I street north	Massachusetts avenue	100 88	191 20		90 32
329	do	9th street west	Maryland avenue	B street south		176 89		176 89
330	do	do	do	D street south		1,477 17		1,477 17
331	do	P Street Circle, at 19th street and Connecticut avenue						
332	do	Pennsylvania avenue and intersection of 10th street west						

333	do	New Jersey avenue and intersection with I street north.							
334	do	Pennsylvania avenue and intersection with 10th street east.							
335	do	Various streets and avenues.							
336	do	Potomac street	Grace street	757 84	645 38	112 46			
337	do	Johnson avenue	R street north	877 66	603 29	274 37			
338	do	Mill street	West street	813 50	919 68				106 18
339	do	Gay street	Montgomery street	1,064 25	859 86	204 39			
340	do	P street north	14th street west	67 42	196 74				129 32
341	do	H street north	2d street east	161 16	306 98				145 82
342	do	13th street east	G street north	1,089 07	1,210 18				121 11
343	do	6th street west.	P street to Q, and from Rhode Island avenue to boundary.*						
344	do	Sheriff road, county.							
345	do	Military road, county.							
346	do	Bowen avenue, county.							
347	do	Grant road, county.							
348	do	4½ street road, county.							
349	do	Broad Branch road, county.							
350	do	Ontario avenue, county.							
351	do	Centre street road	Howard avenue						
352	do	Oak street	Mount Pleasant, county.						
353	do	Murdock's mill and road (extension), county.							
354	do	Nailor road, county.							
355	do	Bunker Hill road, county.							
356	do	Bates road, county.							
357	do	Shepherd road, county.							
358	do	Blair road, county.							
359	do	Harewood road, county.							
360	do	6th street east							
361	do	Dall's road, county	M street south	975 26		975 26			
362	do	Rock Creek Church road, county.		500 11		500 11			
363	do	8th street extended	Grant avenue	1,005 46	957 59	47 87			
364	do	Central avenue.	Metropolis View, county.	1,339 66		1,339 66			
365	do	Morris road, county.		999 28		999 28			
366	do	Wheeler road, county.		812 56		812 56			
367	do	Central avenue	Benning's road.	409 33		409 33			
368	do	Bowen road	Good Hope road	237 40		237 40			
369	do	P street north	3d street west.	1,759 77	228 54	1,531 23			
370	do	C street north	3d street east	798 03	143 15	654 88			
371	do	Suit road, county		1,298 06		1,298 06			
372	do	Duddington Place, 1st street east.	B street south	135 03	128 60	6 43			

* Revised with Commissioner's assessment No. 44.

Table showing revised assessments of streets, avenues, &c.—Continued.

No.	By whom assessed.	Street or avenue.	From—	To—	Amount of original assessment.	Net amount of revised assessment.	Decrease.	Increase.
373	Commissioners	Sumner street, Howard University Division, county.	.....	.....	\$162 30	.....	\$162 30	.....
374	do	16th street road, county.	.....	.....	6,960 98	.....	6,960 98	.....
375	do	Canal road, county.	.....	.....	17,693 08	.....	17,693 08	.....
376	do	Ridge road, county.	.....	.....	349 96	.....	349 96	.....
378	do	Lot 13, square 621, on Land 1st streets.	.....	.....	191 41	\$191 41	.....	.....
379	do	G street north	22d street west.....	27th street west.....	2,445 22	2,445 22	.....	.....
	Total .....	.....	.....	.....	875,806 11	567,771 46	352,616 81	\$44,582 16

APPENDIX X 16.

TABLE I.—SPECIAL ASSESSMENT DIVISION.

APPENDIX No. 2.—Statement of amounts charged United States in the revision of assessments.

COMMISSIONERS' ASSESSMENTS.

No.	Limits.	Reservations.	Grading.	Curbing.	Sidewalk.		Carriage-way.	Parking.	Sewer.	Fence, wood.	Trees.	Total.
					Brick pavement.	Flagging.						
95	6th street east, from Pennsylvania avenue to K street south.	At South Carolina avenue and E street.	.....	\$237 10	\$217 66	.....	\$448 64	.....	.....	.....	.....	\$903 40
98	New Jersey avenue, from E street south to canal.	No. 17	\$3, 677 79	2, 881 73	3, 532 04	.....	26, 441 62	.....	\$3, 501 98	.....	\$271 00	40, 306 16
104	K street north, from Pennsylvania avenue circle to Rock Creek.	Between Pennsylvania avenue and 24th street.	.....	337 50	107 00	.....	2, 835 00	\$160 00	.....	.....	.....	3, 445 50
106	Q street north, from New Jersey avenue to 14th street west.	Between 9th street and Rhode Island avenue.	.....	371 88	313 07	.....	377 25	.....	.....	.....	.....	1, 062 20
114	N street south, from James Creek Canal to 3d street east.	At Canal and 1st street west.	.....	324 41	118 83	.....	1, 167 44	.....	.....	.....	.....	1, 610 68
117	S street north, from 14th street west to Boundary east.	At New Jersey avenue and Boundary street.	.....	383 46	272 53	.....	178 98	.....	.....	.....	31 50	866 47
119	1st street east, from C street south to F street south.	No. 17	6, 637 91	607 21	646 42	.....	812 67	.....	.....	.....	.....	8, 704 21
122	Massachusetts avenue, from New Jersey avenue to 11th street east.	At 7th street east.	1, 952 76	385 72	401 92	.....	446 39	.....	.....	.....	73 50	3, 260 29
122	do	Filling up excavation made by United States for gravel between North Capitol street and 2d street east.	9, 878 52	.....	.....	.....	.....	.....	.....	.....	.....	9, 878 52
122	do	At 8th street east.	2, 918 70	525 08	517 84	.....	632 37	.....	.....	.....	59 50	4, 653 49
122	do	At 9th street east.	1, 095 82	327 24	300 18	.....	574 15	.....	.....	.....	45 50	2, 342 89
122	do	At Stanton Place.	1, 779 50	.....	.....	.....	.....	.....	.....	.....	.....	1, 779 50
122	do	At 3d street east.	3, 493 52	134 40	171 66	.....	158 61	.....	.....	.....	17 50	3, 975 69
122	do	At 2d street east.	6, 296 53	447 64	466 11	.....	596 95	.....	.....	.....	80 50	7, 887 73
122	do	At Delaware avenue, north and south side Massachusetts avenue.	512 86	591 16	545 27	.....	420 07	.....	.....	.....	63 00	2, 132 36
126	K street south, from James Creek Canal to 4½ street west.	Between Delaware avenue and 2d street.	496 83	.....	.....	.....	139 99	.....	.....	.....	.....	636 82

Statement of amounts charged United States in the revision of assessments—Continued.

No.	Limits.	Reservation.	Grading.	Curb- ing.	Sidewalk.		Carriage- way.	Parking.	Sewer.	Fence, wood.	Trees.	Total.
					Brick pavement.	Flagging.						
127	10th street, from East Capitol street to I street north.											
130	G street north, from 22d street west to River.	At 24th street	\$1,294 13	229 13	\$220 39		\$2,482 10		\$318 62		\$24 00	\$4,568 37
130	do	Between New Hampshire and Virginia avenues.	3,133 12	498 72	449 97		4,589 30				45 00	8,716 11
130	do	Between New Hampshire avenue and 26th street.	1,148 35	204 60	183 13		2,010 54				24 00	3,570 62
132	H street north, from 22d street west to river.	Between New Hampshire avenue and 25th street.		145 32	75 53		373 91					594 76
133	Virginia avenue, from 17th street west to Rock Creek.	Between canal basin and 17th street.	3,402 20									3,402 20
133	do	At 25th street	12,327 76									12,327 76
133	do	At 24th and G streets	3,792 91	261 12			240 68				27 00	4,321 71
133	do	At 24th street and Virginia avenue.	4,630 34	333 49			277 28				24 00	5,265 11
133	do	At 23d street and Virginia avenue.	1,173 92	371 41			267 55				21 00	1,833 88
133	do	At 21st street and Virginia avenue.	159 50	381 22			435 40				27 00	1,003 12
133	do	At 20th street and Virginia avenue.		356 34			326 13				27 00	709 47
133	do	Square 82.		302 22			229 25		878 46		27 00	1,436 93
134	19th street east, from B street south to E street south.	Reservation 13	5,557 38									5,557 38
142	P street south, from 4½ street west to Potomac River.											
144	I street south, from 6th street east to 8th street east.	Between 6th and 7th streets							1,989 12			1,989 12
145	South Carolina avenue, from New Jersey avenue to 8th street east.	Between 7th street east and Pennsylvania avenue.					2,738 75					2,738 75
145	do	Between 4th and 6th streets east.	5,796 96									5,796 96
145	do	Reservation 17	11,619 55									11,619 55
148	C street north, from 6th street east to 15th street east.											
150	T street north, from Vermont avenue to Boundary.	Between New Hampshire avenue and 17th street.	640 52	203 18	175 93		970 31					1,989 94

154	O street south, from 4½ street west to river.	Between 4th and 6th streets.	13, 511 03				809 77			14, 320 80
155	North Carolina avenue, from New Jersey avenue to 11th street east.	Between 2d and 3d streets	2, 082 42							2, 082 42
155	do	At N. Carolina ave. and E st.	19, 855 75	487 45	536 22	1, 474 33		52 50		22, 406 25
156	10th street west, from D street south to Water street.	Between P street and Rhode Island avenue.		157 80	188 00	460 19				805 99
157	12th street west, from P street north to Q street.									
158	Vermont avenue from P street circle to Q street north.	Between 12th and 13th streets.	1, 217 17	611 18	461 55	2, 882 00				5, 171 90
159	Ohio avenue, from 12th street west to 15th street west.	Between B street north and B street south.	4, 458 49	5, 474 47	32, 192 00	31, 537 00	3, 800 75	448 00		77, 910 71
163	14th street west, from B street north to B street south.	do		4, 575 07	28, 797, 90	25, 020 33	378 13	448 00		59, 219 43
164	7th street west, from B street north to B street south.	Between C street and Ohio avenue.		163 65	119 52	1, 293 74		16 00		1, 592 91
166	14th street west, from B street north to Ohio avenue.	North and south sides of H street.					891 53			891 53
169	South Capitol street, from G street south to K street south.	Between 4½ and 6th street west.					2, 031 12			2, 031 12
171	Armory square									
175	8th street east, from East Capitol street to I street north.									
177	5th street west, from D street north to G street north									
179	11th street west, from B street south to Water street.	Between B street south and Virginia avenue.	757 92	259 06	156 59	1, 418 33	107 64	15 00		2, 714 54
186	14th street east, from B street south to Boundary.	At Tennessee avenue.	1, 643 42			187 50				1, 830 92
186	do	At Massachusetts avenue	271 53			31 25				302 78
186	do	At North Carolina avenue	370 58			31 25				401 83
188	D street south, from South Capitol street to 7th street east.	At south side 2d and 3d streets.				263 97				263 97
188	do	At north side 2d and 3d streets.	5, 451 87			2, 496 68				7, 948 55
190	C street north, from 4th street east to 5th street east.									
192	19th street west, from New York avenue to Canal.	Rawlings Square					819 44			819 44
193	Virginia avenue, from 4½ street west to 6th street west.	At 4½ street					215 04			215 04
195	New Hampshire avenue, from S street north to Boundary st.									
197	M street south, from 6th street east to 8th street east.	Navy yard.					169 73			169 73
198	I street north, from 4th west to 5th street west.	South side 5th and I streets.					383 48	68 80		402 28

232	23d street west, from Virginia avenue to Potomac River.	Reservation No. 4	4,557 56						4,557 56
240	Fourth street east, from Maryland avenue to Boundary st.	Stanton square						961 92	961 92
244	Pennsylvania avenue, from 8th street east to 11th street east.	Between 8th and 9th streets.	3,824 49	1,691 51	594 62		4,089 85	695 35	10,967 82
244	do	Between 9th and 11th streets	5,993 95	1,845 67	742 43		6,460 59	880 02	18,081, 63
247	20th street west, from Virginia avenue to E street north.								
249	25th street west, from G street north to Potomac River.	Reservation No. 4	6,460 39						6,460 39
250	M street north, from New York avenue to 1st street east.	Between New York avenue and 1st street west.	3,036 01						3,036 01
252	3d street west, from Maryland avenue to E street north.								
254	E street north, from 7th street west to Potomac River.	Rawlins square,	1,712 00	2,372 81	1,385 11		6,363 67		12,029 59
254	do	At square 82	1,337 62	438 00	370 55		856 27	239 00	3,384 64
254	do	Reservation 4, National Observatory.	1,234 33						1,234 33
255	4th street east, from North Carolina avenue to Potomac River.	Between South Carolina avenue and E street south.	546 71	225 82	219 89		889 82		1,882 24
255	do	Between Virginia avenue and I street south.	305 59	223 59	208 17		800 34		1,537 69
257	2d street west, from Maryland avenue to B street south.	Between Maryland avenue and B street.		464 43	2,919 73				3,384 16
261	C street north, from 1st street west to 3d street east.	Lot 1, square 683	375 30	257 69	170 05		1,428 55	685 44	2,985 91
268	12th street west, from B street north to B street south.						33,398 00		78,594 23
272	B street south, from 2d street east to 6th street east, and from 11th street east to 12th street east.	Reservation No. 2		5,407 32			34,007 80		1,306 26
274	26th street west, from K street north to Potomac River.	Between Pennsylvania avenue and 3d street east.	234 38				1,071 88		
277	B street north, from 1st street east to 4th street east.		676 59	237, 63	220 35		257 98		1,424 55
277	do	Corner 2d and B streets	1,003 90	244 20	216 66		3,301 63	186 63	4,953 02
278	E street south, from 1st street east to 6th street east.	Between 2d and 3d streets.	1,552 04	195 70	222 22		652 03	134 16	2,756 15
282	D street north, from New Jersey avenue to 3d street east.	South side, between 4th and 6th streets.	2,118 06						2,118 06
283	2d street east, from Maryland avenue to G street north.	At 2d street east.	916 02						916 02
284	4th street west, from New Jersey avenue to P street.	Between Massachusetts avenue and D street.	103 53	138 03	98 88		224 55		572 99
286	17th street west, from M street north to Q street north, and from R street north to S street north.	Between N and O streets	468 79	218 23	198 49		158 33		1,071 84

APPENDIX X 17.

TABLE K.

SPECIAL ASSESSMENT DIVISION.

APPENDIX 3.—Statement of assessments for the improvement of alleys.

Number.	Location.	Original assessment.	Revised assess- ment.	Number.	Location.	Original assessment.	Revised assess- ment.
380.....	180	Included in 151.	\$243 03	449.....	102	\$104 00	.....
381.....	194	do	394 59	450.....	733	104 84	.....
382.....	209	do	1,321 20	451.....	363	295 07	.....
383.....	387	Included in 251.	416 64	452.....	347	75 00	.....
384.....	248	\$1,552 33	2,490 27	453.....	344	124 66	.....
385.....	499	433 46	412 82	454.....	319	240 00	.....
386.....	890	158 57	150 71	455.....	311	177 60	.....
387.....	245	1,461 39	1,288 63	456.....	310	248 86	.....
388.....	368	508 79	484 57	457.....	283	117 30	.....
389.....	628	1,000 98	879 33	458.....	215	74 43	.....
390.....	239	468 16	368 80	459.....	200	206 00	.....
391.....	624	28 38	171 94	460.....	199	78 27	.....
392.....	424	668 99	637 13	461.....	196	100 73	.....
393.....	78	123 05	191 51	462.....	170	31 20	.....
394.....	279	262 92	94 24	463.....	421	639 51	\$609 06
395.....	N. of 515	330 92	315 17	464.....	398	509 62	315 00
396.....	121	684 67	137 71	465.....	278	308 14	293 47
397.....	465	321 37	306 07	466.....	126	491 69	468 28
398.....	235	465 13	442 98	467.....	234	612 22	583 70
399.....	337	391 03	361 85	468.....	142	640 89	72 25
400.....	729	785 40	748 00	469.....	274	336 49	313 87
401.....	367	642 14	642 94	470.....	225	186 65	129 31
402.....	36	325 20	.....	471.....	86	975 50	690 86
403.....	859	448 64	427 28	472.....	335	274 58	261 50
404.....	515	131 89	125 62	473.....	366	236 30	242 60
405.....	164	812 80	742 28	474.....	561	369 75	352 15
406.....	786	266 41	253 72	475.....	1,000	.....	.....
407.....	419	898 95	666 15	476.....	81	23 76	.....
408.....	365	1,168 20	914 06	477.....	725	234 30	223 15
409.....	462	273 30	260 29	478.....	C.	451 84	430 32
410.....	216	1,018 01	569 93	479.....	724	838 71	625 62
411.....	236	600 75	572 13	480.....	373	317 64	.....
412.....	492	530 63	505 36	481.....	14	207 30	197 43
413.....	484	98 20	93 52	482.....	163	890 93	848 51
414.....	280	681 62	649 17	483.....	727	222 05	199 03
415.....	207	256 30	404 08	484.....	889	343 23	326 89
416.....	400	413 09	393 42	485.....	37	290 52	139 93
417.....	326	306 56	291 97	486.....	559	609 69	580 66
418.....	760	720 41	393 53	487.....	417	246 31	234 59
419.....	436	477 00	.....	488.....	254	3,074 60	2,758 20
420.....	103	931 16	793 43	489.....	442	473 00	450 48
421.....	502	1,163 73	981 20	490.....	503	2,259 44	719 67
422.....	73	546 63	599 23	491.....	276	235 28	219 41
423.....	425	972 55	926 24	492.....	54	424 10	471 07
424.....	480	216 70	206 39	493.....	338	289 43	272 98
425.....	195	1,146 59	806 30	494.....	377	296 25	161 30
426.....	†416	526 31	501 25	495.....	250	506 20	481 05
427.....	378	462 80	399 61	496.....	417	414 45	414 89
428.....	575	881 63	756 95	497.....	449	1,057 60	1,007 24
429.....	375	398 27	511 40	498.....	510	616 03	540 30
430.....	397	449 51	447 50	599.....	448	727 59	692 94
431.....	446	412 40	697 02	.....	302	.....	.....
432.....	841	171 85	163 67	500.....	303	.....	.....
433.....	210	756 52	720 50	.....	305	.....	.....
434.....	935	465 80	443 62	.....	V st., 303	1,968 61	1,804 37
435.....	309	247 82	229 38	.....	U st., 304	.....	.....
436.....	420	292 98	279 03	501.....	11 st., 304	.....	.....
437.....	422	256 48	244 27	502.....	423	226 48	431 40
438.....	900	498 61	474 87	503.....	933	297 11	282 97
439.....	467	636 37	606 07	504.....	856	533 89	422 41
440.....	366	803 49	741 64	505.....	212	527 50	307 05
441.....	312	928 42	802 61	506.....	†441	1,398 02	1,352 15
442.....	D.	1,616 42	1,241 46	507.....	625	771 54	734 78
443.....	277	198 74	211 07	508.....	77	127 13	.....
444.....	76	171 68	116 97	509.....	E. of 509	416 02	396 21
445.....	408	151 39	.....	510.....	116	1,285 78	1,090 38
446.....	218	96 35	.....	511.....	70	2,004 22	1,908 78
447.....	517	44 58	.....	512.....	555	1,745 41	298 89
448.....	858	36 52	.....	513.....	214	972 04	855 79
				514.....	686	405 84	386 52
					907	.....	.....

*And the V street front of lot 40.

†Seventh, Eighth, and Fifth streets front.

‡Alley and S street front.

TABLE K.

APPENDIX 3.—Statement of assessments for the improvement of alleys—Continued.

Number.	Location.	Original assessment.	Revised assess- ment.	Number.	Location.	Original assessment.	Revised assess- ment.
515.....	435	\$346 89	\$330 38	534.....	S. of 104	\$299 26	\$285 01
516.....	Res. 12	142 44	132 33	535.....	540	884 00	699 46
517.....	237	274 33	261 27	536.....	157	231 44	.....
518.....	364	1, 242 11	1, 177 13	537.....	912	72 81	.....
519.....	630	151 49	144 28	538.....	90	245 00	.....
520.....	719	448 03	426 70	539.....	528	214 82	.....
521.....	454	546 35	520 33	540.....	785	96 04	.....
522.....	693	377 25	359 29	541.....	198	296 74	.....
523.....	395	340 79	352 33	542.....	183	.....	.....
524.....	339	1, 062 39	1, 011 80	543.....	170	100 11	.....
525.....	111	167 16	159 20	544.....	478	61 61	.....
526.....	336	236 13	213 13	545.....	690	578 12	550 59
527.....	463	278 09	529 69	Total .....	.....	84, 657 68	71, 353 90
528.....	140	1, 175 42	811 28	Increase .....	.....	17, 978 93	.....
529.....	117	402 05	107 61	Decrease .....	.....	4, 675 24	.....
530.....	159	2, 981 13	2, 094 00			13, 303 69	.....
531.....	197	167 80	182 89				
532.....	242	521 07	522 77				
533.....	518	229 73	218 79				

APPENDIX No. 18.

TABLE L.

SPECIAL ASSESSMENT DIVISION.

APPENDIX 4.—Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
5	Aug. 12, 1872	11 of 21	291	12th street.	Bell, Precey Ann.	\$226 25	\$187 08	\$39 17	
50	Aug. 23, 1872	of 20	218	14th street.	Young, Charles B.	52 79	37 35	15 44	
51	do		218	do	do	184 76	130 72	54 04	
65	Aug. 24, 1872	C	247	do	Purvis, Charles B.	135 75	77 64	58 11	
88	Sept. 3, 1872	A	215	Vermont avenue.	Daley, James.	784 46	352 77	431 69	
89	do	of B	215	do	do	129 45	83 51	45 94	
96	do	17	216	do	Guntou, William, receiver.	227 93	200 79	27 14	
97	do	a. 16	216	do	do	227 93	200 79	27 14	
148	Sept. 21, 1872	of 12	286	I street	Dant, James.	67 96	.....	67 96	
149	do	of 12	286	do	Posey, Richard	74 02	41 16	32 86	
160	do	a. 10	318	do	Wilson, John	145 65	145 08	57	
161	do	a. 11	318	do	do	139 58	139 05	53	
172	Sept. 30, 1872	of 5	n. of 4	Pennsylvania avenue.	Stieger, W. T.	96 92	86 05	10 87	
188	do	L and K	26	do	Birch, Henry	303 17	214 10	89 07	
189	do	of 3	27	do	Salter, Martha A.	227 62	227 01	61	
190	do	1	27	do	Bohrer, B. S.	526 70	468 55	58 15	
229	do	of 4	118	do	Stott, Samuel	123 62	108 77	14 85	
230	do	of 3	118	do	do	85 90	74 69	11 21	
244	do	of 8	166	do	Wilner, George	110 13	106 71	3 42	
256	do	a. 13	168	do	Alexander, Columbus	180 04	175 93	4 11	
257	do	a. 14	168	do	do	180 05	175 93	4 12	
258	do	of s. 15	168	do	do	180 04	175 93	4 11	
264	do	of 18	168	do	O'Toole, Eleanor	181 95	177 92	4 03	
410	Oct. 5, 1872	of 28	516	4th street	Fletcher, John	19 40	.....	19 40	
414	do	of 19	516	do	Hempler, John G.	74 76	72 97	1 79	
419	do	of 22	a. of 516	do	Wroe, C. P. P.	96 14	80 74	15 40	
421	do	of 1	s. of 516	do	Boss, James H.	62 73	61 53	1 20	
458	do	of 9	528	do	Brown, T. A.	37 59	33 03	4 56	
459	do	10	528	do	do	88 65	74 38	14 27	
476	do	of 3	531	do	Johnson, John H.	31 04	23 40	7 64	
484	Aug. 19, 1872	1	433	7th street	Clarke, Henry A.	977 80	632 50	345 30	\$240 00, September 24, 1873.

485	do	of 8	433	do	do	do	170 06	42 75	127 31	\$132 20, September 24, 1873.
486	do	of 8	433	do	Monroe, Seaton	do	446 89	369 88	77 01	\$225 63, September 24, 1873.
487	do	of 7	433	do	Randall, H. K., trustee	do	600 99	396 68	204 31	\$147 79, September 24, 1873.
488	do	of 6	433	do	do	do	1, 025 63	680 33	345 30	\$46 17, September 29, 1873.
496	do	of 12	434	do	Yates, Jackson	do	671 77	339 39	332 38	\$46 17, September 29, 1873.
500	do	of 39	435	do	Jackson, B. L. and W. B.	do	209 88	102 40	107 48	\$46 17, September 29, 1873.
501	do	of 38	435	do	Wolford, Henry	do	209 88	134 53	75 35	\$46 17, September 29, 1873.
502	do	of 37	435	do	Wolford, H., and M. Shilburg	do	209 88	134 53	75 35	\$46 17, September 29, 1873.
506	do	of 33	435	do	do	do	209 88	134 53	75 35	\$48 10, September 29, 1873.
507	do	of 32	435	do	Williams, Washington	do	218 61	140 12	78 49	\$39 31, September 30, 1873.
510	do	of 29	435	do	Sheriff, Eleanor	do	199 56	133 63	65 93	\$35 11, September 24, 1873.
517	do	of 25	435	do	Harvey, Catherine	do	209 88	102 39	107 49	\$32 03, October 1, 1873.
521	do	of P	436	do	Carasson, Ira	do	159 58	102 31	57 27	\$26 97, September 29, 1873.
522	do	of P	436	do	do	do	90 20	62 74	27 46	\$144, September 24, 1873.
523	do	of O	436	do	do	do	69 95	44 85	25 10	\$139, September 24, 1873.
525	do	of L	436	do	Kirk, Vincent	do	109 31	55 46	53 85	\$102, September 24, 1873.
531	do	of F	436	do	Mahoney, Robert	do	118 04	75 66	42 38	\$47 31, September 24, 1873.
533	do	of 1	437	do	Kirk, George, trustee	do	364 92	238 83	126 09	\$47 31, September 24, 1873.
534	do	of 14	437	do	Kirk, George	do	447 11	296 43	150 68	\$47 31, September 24, 1873.
535	do	of 13	437	do	do	do	157 39	100 89	56 50	\$136 81, September 24, 1873.
539	do	of 1	438	do	Riley, W. R.	do	621 35	413 14	208 21	
540	do	of 14	438	do	do	do	461 55	310 87	150 68	
541	do	of 13	438	do	Lomax, S. F.	do	215 07	142 87	72 20	
542	do	of 13	438	do	Reed, Joseph W.	do	215 06	128 92	86 14	
545	do	of 12	438	do	Whitney, H. O., and A. Loyd, trustee	do	175 71	96 64	79 07	
546	do	of 11	438	do	Van Riswick, John	do	621 85	321 82	300 03	
547	do	of 1	439	do	Phillips, Robert A	do	621 60	413 39	208 21	
548	do	of 14	439	do	do	do	285 01	187 69	97 32	
549	do	of 14	439	do	Jenkins, W. B., trustee	do	162 59	92 51	70 08	
550	do	of 13	439	do	do	do	229 00	134 09	94 91	
551	do	of 13	439	do	Dent, H.	do	215 05	120 14	94 91	
552	do	of 12	439	do	do	do	447 61	249 24	198 37	
553	do	of 11	439	do	do	do	156 77	89 92	66 85	
554	do	of 11	439	do	do	do	479 03	267 14	211 89	
555	do	of 1	439	do	Culinane, Pat	do	697 63	420 00	277 63	
556	do	of 13	439	do	do	do	348 51	212 77	135 74	
557	do	of 12	439	do	do	do	334 56	198 82	135 74	
558	do	of 11	439	do	do	do	348 51	212 77	135 74	
559	do	of 10	439	do	do	do	451 14	238 87	212 27	
561	do	of 19	462	do	Close, Ann E. S.	do	218 59	120 83	97 76	
568	do	of 11	464	do	Sheckel, B. O., trustee for McGuire	do	904 26	579 66	324 60	\$48 87, October 3, 1873.
569	do	of 11	464	do	Milburn, M., trustee	do	143 90	92 25	51 65	\$49 29, October 3, 1873.
570	do	of 11	464	do	do	do	468 15	300 11	168 04	\$49 29, October 3, 1873.
571	do	of 64	465	do	Petty, James T.	do	222 42	104 83	117 59	
572	do	of 65	465	do	Bayne, Ann E.	do	223 89	121 77	102 12	
573	do	of 66	465	do	Smith, J. L., & L. A. Cook	do	223 88	121 77	102 11	
576	do	of 70	465	do	do	do	202 56	129 85	72 71	
582	do	of 78	465	do	Mart, Thomas F.	do	206 94	128 72	78 22	
583	do	of 82	465	do	Brown, W. E.	do	223 88	110 62	113 26	
587	do	of 9	466	do	Martin, Mary E.	do	225 18	144 33	80 85	
588	do	of 10	466	do	Mankin, John R. W	do	174 89	116 30	58 59	\$49 53, September 24, 1873.
590	do	of 11	466	do	Dant, George W.	do	437 66	251 63	186 03	\$38 47, October 1, 1873.
	do			do	Guntton, William	do				

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
591	Aug. 19, 1872	12	466	7th street	Croggan, William H.	\$399 27	\$255 97	\$143 30	\$87 84, September 24, 1873.
592	do	of 13	466	do	Croggan, John T. S.	200 08	128 22	71 86	\$44 01, September 24, 1873.
593	do	of 13	466	do	do	141 50	90 94	50 56	\$31 13, September 24, 1873.
600	do	7	467	do	Fahey, Thomas	192 38	123 32	69 06	\$42 32, September 24, 1873.
601	do	8	467	do	Hutton, Jacob D.	201 11	128 92	72 19	\$44 24, October 3, 1873.
602	do	9	467	do	Church, Charles B.	213 76	143 91	69 85	\$47 01, October 3, 1873.
603	do	10	467	do	do	912 81	598 90	313 91	\$200 81, October 3, 1873.
608	do	11	468	do	Sheckell, George A.	218 61	140 13	78 48	\$48 09, September 24, 1873.
609	do	12	468	do	Fahey, Thomas	218 61	140 13	78 48	\$48 10, September 24, 1873.
610	do	13	468	do	Gedney, Samuel	237 80	118 99	118 81	
611	do	14	468	do	do	43 72	28 02	15 70	
616	do	of 14	468	do	Campbell, Robert G.	218 61	140 13	78 48	\$43 72, September 30, 1873.
620	do	17	469	do	Brewer, Charles J.	237 80	159 32	78 48	
621	do	10	469	do	Shea, Bartholomew	237 80	159 32	78 48	\$83 16, September 29, 1873.
622	do	11	469	do	do	159 58	102 29	57 29	
623	do	of 12	469	do	do	78 22	50 55	27 67	
624	do	of 12	469	do	Garwood, S. H.	237 80	134 34	103 46	
625	do	13	469	do	do	41 38	21 91	19 47	
630	do	of 14	469	do	do	43 38	27 79	15 59	\$9 54, September 24, 1873.
631	do	of 16	469	do	Bishop, Joseph	125 35	80 35	45 00	\$27 51, September 24, 1873.
632	do	of 17	469	do	do	112 47	78 98	33 49	\$24 74, September 25, 1873.
633	do	of 17	469	do	Springman, John F.	237 80	159 32	78 48	\$52 31, September 25, 1873.
634	do	18	469	do	do	237 80	129 34	108 46	
635	do	8	470	do	Mattingly, George	281 52	157 29	124 23	
636	do	9	470	do	do	262 33	138 10	124 23	
637	do	10	470	do	do	281 52	157 30	124 22	
642	do	11	470	do	do	2, 195 30	1, 289 50	905 80	\$42 69, September 24, 1873.
645	do	all	w. of 471	do	Rothwell, Andrew	194 07	111 20	82 87	\$38 47, September 24, 1873.
646	do	16	471	do	Van Riswick, John	174 88	92 00	82 88	\$38 47, September 24, 1873.
647	do	17	471	do	do	174 88	92 00	82 88	\$37 88, September 24, 1873.
648	do	18	471	do	do	172 22	99 52	72 70	
649	do	19	471	do	do	153 03	80 33	72 70	
650	do	20	471	do	Mattingly, George	174 88	92 00	82 88	
651	do	21	471	do	do	194 07	111 20	82 87	
652	do	22	471	do	do	174 88	92 00	82 88	
653	do	23	471	do	do	174 88	92 00	82 88	
655	do	24	471	do	do	3, 024 33	1, 571 17	1, 453 16	
660	Sept. 2, 1872	all	472	do	Potomac Ferry Company, and G. and T. Parker.	312 33	166 90	145 43	
		1	222	New York avenue	Dodge, H. H., et al., trustees				

661	do	2	222	do	Chapman, Elizabeth	312 33	165 90	145 43
674	do	7	223	do	Nicholls, H. S., and W. W. Corcoran	1, 772 24	836 55	935 69
691	do	2	252	do	Wilson, John	299 47	223 11	76 36
693	do	18	252	do	do	1, 030 10	679 55	350 55
703	do	of 2	286	do	Alexander, Columbus	170 36	105 57	64 79
708	do	of 7	287	do	Maury, Isabella	20 50	13 54	6 96
709	do	of 6	287	do	do	208 32	137 61	70 71
722	do	s. 10	372	do	Graham, Carter B.	290 61	164 95	125 66
723	do	s. 9	372	do	do	289 74	164 83	124 91
3593	do	of 1	372	do	Morrison, David L.	63 09	63 00	63 00
748	do	24	373	do	Kennedy, J. C., trustee for S. A. Bradley	257 02	135 05	121 97
760	do	of 4	250	H street	Heiskell, H. L.	182 13	156 94	25 19
802	do	3	407	D street	Christian Association	256 43	252 02	4 41
803	do	4	407	do	do	256 44	252 02	4 42
838	do	of 1	529	3d street	Speaks, Winnie A.	205 76	172 32	33 44
839	do	of 1	529	do	Bowen, George	822 03	665 58	156 45
846	do	15	530	do	Burr, R. W.	214 00	177 70	36 30
850	do	1	531	do	Baldwin, W. H.	617 28	409 84	207 44
851	do	of 10	531	do	Hannay, Peter	617 28	403 91	213 37
870	do	of 15	532	do	Riley, P. C.	214 68	159 04	55 64
881	do	12	562	do	Pepper, H. P.	1, 234 56	1, 102 76	131 80
883	do	of F	564	do	Dellinger, H. M., trustee	823 04	583 07	239 97
886	do	16	564	do	Stevens, M. H.	205 76	165 67	40 09
887	do	17	564	do	do	205 76	182 17	23 59
888	do	18	564	do	do	205 76	165 67	40 09
893	do	of 22	564	do	Koonen, Frederick	494 51	343 47	151 04
894	do	s. 19	566	do	Bottomly, James	197 53	181 93	15 60
899	do	E	568	do	Sullivan, John T.	164 60	116 00	48 60
910	do	of 7	525	do	Marshall, Sophia	164 61	161 39	3 22
921	do	s. 1	527	do	Jones, J. Stanley	227 02	204 83	22 19
922	do	of s. 1.	527	do	do	178 32	161 36	16 96
951	do	of s. 2	381	Louisiana avenue	Berry, Thomas	922 30	566 06	356 24
952	do	1	381	do	Haislip, C. G.	230 37	180 23	50 14
958	do	of 2	382	do	Phillip, W. H.	566 12	523 37	42 75
960	do	4	382	do	Wall, William L.	566 12	461 36	104 76
962	do	6	382	do	Phillip, W. H.	562 00	520 73	41 27
963	do	8	382	do	Semmes, John H.	1, 213 11	1, 038 67	174 44
967	do	of 9	293	12th street	O'Brien, James et al (trustee)	141 03	134 70	6 33
969	do	of 19	293	do	Fry, Henry	141 38	135 01	6 37
973	do	of 20	296	do	Connor, Lewis W.	407 83	385 14	22 69
974	do	s. 24	296	do	do	111 67	105 08	6 59
975	do	s. 25	296	do	Smith, J. L.	321 08	304 82	16 26
976	do	20	296	do	Provost, Sarah M.	160 54	152 41	8 13
982	do	of 21	297	do	Coltman, Sophia	155 01	147 06	7 95
990	do	G	299	do	Blagden, Thomas, trustee	599 64	483 04	116 60
991	do	of 14	299	do	do	296 42	281 62	14 80
1994	do	15	300	do	Miller, George R.	1, 752 95	1, 369 08	383 87
1004	do	all	325	do	Coolidge, E.	571 52	542 60	28 92
1006	do	3	325	do	Smith, J. L.	137 04	130 29	6 75
1010	do	of 5	326	do	Blitz, F. S.	646 09	555 81	90 28
		s. 10						

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
1011	Nov. 2, 1872	11	326	12th street	Blitz, F. S.	\$136 75	\$121 06	\$15 69	
1012	do	12	326	do	do	136 75	121 06	15 69	
1013	do	13	326	do	do	136 75	121 05	15 70	
1014	do	14	326	do	do	136 75	121 06	15 69	
1015	do	15	326	do	do	136 75	121 06	15 69	
1016	do	16	326	do	do	136 75	121 06	15 69	
1017	do	17	326	do	do	136 75	121 06	15 69	
1018	do	18	326	do	do	136 75	121 06	15 69	
1019	do	19	326	do	Gales, Sarah J.	136 75	121 06	15 69	
1020	do	20	326	do	do	132 17	116 48	15 69	
1021	do	9	327	do	Donaldson, James W.	681 43	642 60	38 83	
1026	do	2	328	do	Rothwell, Andrew	923 92	878 80	45 12	
1027	do	3	328	do	Bayliss, W., trustee.	919 34	874 21	45 13	
1052	do	of 19	374	9th street	Beall, B. A. and R. J.	119 79	72 71	47 08	
1061	do	B	376	do	Dellinger, H. M.	169 84	71 66	98 18	
1069	do	23	378	do	Guntton, William	265 61	175 48	90 13	
1072	do	50	379	do	do	286 96	178 12	108 84	
1073	do	51	379	do	do	129 98	105 46	24 52	
1074	do	52	379	do	do	129 98	33 77	96 21	
1075	do	53	379	do	do	92 61	40 49	52 12	
1105	do	of 6	404	do	Lewis, Thomas	26 00		26 00	
1113	do	of 7	405	do	Harvey, G. W.	77 01	35 92	41 09	
1114	do	of 7	405	do	Guntton, William	154 03	92 85	61 18	
1118	do	8	406	do	Wood, Charles	389 96	236 66	153 30	
1119	do	4	407	do	Christian Association	389 97	168 16	221 81	
1120	do	of 5	407	do	do	130 00	59 93	70 07	
1126	do	B	408	do	Adamson, Alexander	120 46	55 85	64 61	
1134	Nov. 8, 1872	6	79	G street	Woodward, William R.	109 26	84 45	24 81	
1140	do	of 11	80	do	Coombs, J. J.	198 88	114 98	83 90	
1142	do	of 12	80	do	Gibson, M. C., and H. Folsom	205 40	130 74	74 66	
1146	do	of 14	80	do	Coolidge, Elizabeth	111 38	64 39	46 99	
1147	do	of 15	80	do	Martin, Elizabeth A.	201 60	89 34	112 20	
1148	do	of 16	80	do	Hoban, M. B.	238 00	148 70	89 30	
1149	do	1	102	do	Hanley, Edmund	399 99	190 88	209 11	
1150	do	of 2	102	do	do	431 89	183 75	248 14	
1151	do	3	102	do	do	209 24	119 22	90 02	
1154	do	of 6	102	do	Sandiford, Samuel	206 92	92 32	114 60	
1167	do	D	120	do	Brown, William	330 25	69 58	260 67	
1168	do	E	120	do	do	239 99	44 93	195 06	

1170	do.....			120	do.....	Stott, Elizabeth <i>et al.</i>	637 64	301 67	335 97
1173	do.....	G 3	of 3	141	do.....	Nailor, Allison	205 41	71 91	133 50
1174	do.....	of 4	of 4	141	do.....	Stott, Elizabeth <i>et al.</i>	182 17	104 79	77 38
1175	do.....	5	of 5	141	do.....	Fay, John C.	438 06	233 19	204 87
1178	do.....	of 7	of 7	142	do.....	McGlen, C. T.	372 59	174 74	197 85
1179	do.....	of 7	of 7	142	do.....	Stott, E. <i>et al.</i>	192 35	123 20	69 15
1181	do.....	of 11	of 11	142	do.....	Turton, J. B.	281 01	112 39	168 62
1184	do.....	of 12	of 12	142	do.....	Redfun, E. J.	384 73	154 09	230 64
1189	do.....	s. 5	s. 5	168	do.....	do.....	224 64	75 06	149 58
1190	do.....	s. 6	s. 6	168	do.....	Gunton, William	292 03	57 36	234 67
1205	Nov. 9, 1872	1	1	80	F street	Maxwell, M. R.	518 80	363 68	155 12
1206	do.....	2	2	80	do.....	Maxwell, C. D.	612 65	278 23	334 42
1207	do.....	3	3	80	do.....	Creedy, Sarah C.	508 82	366 03	142 79
1208	do.....	of 4	of 4	80	do.....	Buchanan, R. C.	254 61	161 73	92 88
1209	do.....	of 4	of 4	80	do.....	Smith, John A.	254 61	161 73	92 88
1215	do.....	of 8	of 8	80	do.....	Biggins, Thomas	252 86	154 23	98 63
1216	do.....	of 8	of 8	80	do.....	Minnix, William H.	273 69	161 41	112 28
1217	do.....	11	11	81	do.....	Gunnell, Helen M.	1, 146 45	947 11	199 34
1224	do.....	1	1	103	do.....	Ramsay, George D.	593 69	324 50	269 19
1225	do.....	2	2	103	do.....	Strain, I. H.	616 02	528 51	87 51
1230	do.....	of 11	of 11	104	do.....	Easbey, H. R.	1, 300 78	818 74	482 04
1234	do.....	of 12	of 12	104	do.....	Lesley, Robert	1, 263 81	816 10	447 71
1235	do.....	of 1	of 1	121	do.....	Matthews, H. C., and H. C. Coffin,	547 82	179 89	367 93
1239	do.....	3	3	121	do.....	trustees.	608 11	404 19	203 92
1240	do.....	4	of 4	121	do.....	Ray, Alexander	637 19	304 75	332 44
1241	do.....	of 9	of 9	122	do.....	Gunton, William	517 71	235 44	282 27
1242	do.....	of 9	of 9	122	do.....	Stott, E. <i>et al.</i>	280 22	164 33	115 89
1243	do.....	of 9	of 9	122	do.....	Lawson, Thomas	64 23	30 37	33 86
1244	do.....	of 9	of 9	122	do.....	Webb, William B.	254 82	111 90	142 92
1245	do.....	of 9	of 9	122	do.....	Whitney, F. A.	258 89	98 93	159 96
1253	do.....	of 14	of 14	143	do.....	Randall, Emily	122 29	52 81	69 48
1254	do.....	15	15	143	do.....	do.....	803 02	319 76	483 26
1255	do.....	A	A	169	do.....	Piatt, Ella	181 65	64 07	117 58
1258	do.....	M	M	169	do.....	Copeland, William P.	203 53	68 41	135 12
1260	do.....	6	s. 6	169	do.....	Speiden, Edgar	338 33	115 63	222 70
1261	do.....	7	s. 7	169	do.....	Webb, W. B., trustee	265 84	115 63	150 21
1264	do.....	1	s. 1	170	do.....	Alexander, Columbus.	259 51	154 30	105 21
1265	do.....	2	s. 2	170	do.....	do.....	246 22	132 54	113 68
1266	do.....	3	s. 3	170	do.....	do.....	246 23	132 54	113 69
1267	do.....	4	s. 4	170	do.....	do.....	246 23	132 54	113 69
1271	do.....	13	13	170	do.....	do.....	585 31	272 63	312 68
1272	do.....	15	15	170	do.....	Towson, Nathan	638 77	314 84	323 93
1273	do.....	16	16	170	do.....	do.....	960 23	421 58	538 65
1277	do.....	G	G	185	I street	Riggs, George W.	856 00	7 39	848 61
1290	do.....	of 19	of 19	200	do.....	Bryan, Thomas B.	422 48	92 46	330 02
1291	do.....	of 20	of 20	200	do.....	Reid, Lucy R., <i>et al.</i>	193 58	192 86	72
1292	do.....	9	9	200	do.....	Coreoran, W. W.	200 78	199 11	1 67
1294	do.....	11	11	200	do.....	do.....	200 78	198 99	1 79
1295	do.....	12	12	200	do.....	do.....	200 78	198 99	1 79
1296	do.....	13	13	200	do.....	do.....	248 97	226 74	22 23

No interest collected, by order of Commissioners, December 12, 1879.
Do

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
1302	Nov. 12, 1872	1	199	15th street	Lander, Henry, trustee	\$519 30	\$488 81	\$30 49	
1303	do	of s. 21	199	do	do	190 40	179 23	11 17	
1313	do	s. 16	220	15th street west	West, Joseph R.	170 79	142 08	28 71	
1316	do	1	221	do	Corcoran, W. W., and George W. Riggs	422 35	351 36	70 99	
1317	do	24	221	do	do	346 20	288 00	58 20	
1318	do	23	221	do	do	346 19	288 00	58 19	
1319	do	22	221	do	do	346 20	288 00	58 20	
1321	do	of 20	221	do	Hooper, Samuel	171 94	115 76	56 18	
1322	do	of 19	221	do	do	346 19	233 05	113 14	
1323	do	of 18	221	do	do	422 35	276 03	146 32	
1353	Nov. 15, 1872	of s. 51	183	16th street	Long, James W.	88 40	68 98	19 42	
1365	do	of s. 20	184	do	Myers, John	162 84	151 65	11 19	
1372	do	s. 1	186	do	Corcoran, W. W.	1, 219 73	756 43	463 30	
1373	do	s. 7	186	do	do	651 36	451 15	200 21	
1374	do	s. 8	186	do	do	904 15	612 49	291 66	
1377	do	of 10	196	do	do	134 98	233 41	103 57	
1378	do	11	196	do	Carlisle, J. M., et al., trustees	1, 116 61	771 53	345 08	
1379	do	of 8	200	do	Chureman, C. W.	260 93	203 62	57 31	
1381	do	9	200	do	Wilson, F. F.	697 88	396 34	301 54	
1384	do	s. 35	197	do	Jennings, William	158 19	109 44	48 75	
1388	do	s. 4	197	do	Hampton, Roderick	232 62	181 53	51 09	
1420	Nov. 18, 1872	1	175	do	Gilbert, B. F.	835 70	726 11	109 59	
1421	do	16	175	do	do	501 41	435 66	65 75	
1422	do	15	175	do	do	501 42	435 66	65 76	
1423	do	14	175	do	do	835 70	726 11	109 59	
1424	do	1	177	do	Adams, J. G.	835 70	726 11	109 59	
1427	do	15	177	do	do	522 31	453 82	68 49	
1428	do	16	177	do	do	522 31	453 82	68 49	
1431	do	s. 3	177	do	Hutchins, Benedict	167 14	128 85	38 29	
1433	do	1	N. of 177	do	Nairn, John W.	411 23	311 83	99 40	
1434	do	3	N. of 177	do	do	1, 503 60	868 21	635 39	
1435	do	1	178	do	Riggs, George W.	835 70	726 10	109 60	
1436	do	16	178	do	do	835 70	726 10	109 60	
1437	do	17	178	do	do	522 31	453 82	68 49	
1438	do	18	178	do	do	459 63	399 36	60 27	
1439	do	19	178	do	do	459 63	399 36	60 27	
1440	do	20	178	do	do	522 31	453 83	68 48	
1452	do	s. 58	179	do	Cross, E. P.	167 14	128 86	38 28	
1456	Nov. 18, 1872	s. 42	180	do	Carupion, Robert A.	188 03	149 43	38 60	

1744	Dec. 9, 1872	s. 16	181	do	Paul, Inez I.	171 32	148 85	22 47
1483	Nov. 18, 1872	6	191	do	Pierce, Joshua	835 70	633 67	202 03
1484	do	7	191	do	do	509 77	392 43	117 34
1485	do	8	191	do	do	472 17	363 75	108 42
1486	do	9	191	do	do	472 17	263 75	108 42
1487	do	10	191	do	do	509 77	392 43	117 34
1488	do	11	191	do	do	835 70	633 67	202 03
1492	do	s. 14	193	do	Mitchell, S. S., and Henry Beard	200 58	174 27	26 31
1493	do	s. 15	193	do	do	183 85	159 74	24 11
1494	do	s. 16	193	do	do	183 86	159 74	24 12
1495	do	s. 17	193	do	do	183 85	159 74	24 11
1496	do	s. 18	193	do	do	183 86	159 74	24 12
1497	do	s. 19	193	do	do	183 85	159 74	24 11
1498	do	s. 20	193	do	do	183 86	159 74	24 12
1499	do	s. 21	193	do	do	183 85	159 74	24 11
1500	do	s. 22	193	do	do	183 86	159 74	24 12
1501	do	s. 23	193	do	do	183 85	141 59	42 96
1502	do	s. 24	193	do	do	183 85	141 59	42 26
1503	do	s. 25	198	do	do	183 85	141 59	42 26
1504	do	s. 26	193	do	do	183 85	141 60	42 25
1505	do	s. 27	193	do	do	183 85	141 60	42 25
1506	do	s. 28	193	do	do	183 85	141 60	42 25
1507	do	s. 29	193	do	do	183 85	141 60	42 25
1508	do	s. 30	193	do	do	183 85	156 12	27 73
1509	do	s. 31	193	do	do	208 92	164 77	44 15
1732	Dec. 12, 1872	of 6	194	do	Dockerty, E. H.	443 18	224 20	218 98
1514	Nov. 21, 1872	of 16	729	East Capitol street	Washburn, E. M., and L. M. Moore	193 46	118 87	74 59
1515	do	of 17	729	do	McCafrey, Hugh	249 72	153 47	96 25
1516	do	of 17	729	do	Lockrey, John, et. al	221 58	136 18	85 40
1520	do	of 19	729	do	Breninger, William	443 18	282 73	160 45
1525	do	22	729	do	Phillips, J. B.	217 64	107 38	110 26
1526	do	s. 1	760	do	Grant, Albert	217 64	107 37	110 27
1527	do	s. 2	760	do	Sullivan, John J.	217 64	107 37	110 27
1528	do	s. 3	760	do	Grant, Albert	217 64	107 37	110 27
1529	do	s. 4	760	do	do	217 64	107 37	110 27
1530	do	s. 5	760	do	do	217 64	107 37	110 27
1531	do	s. 6	760	do	do	217 64	107 37	110 27
1532	do	s. 7	760	do	Loughridge, William	217 64	107 37	110 27
1533	do	s. 8	760	do	Grant, Albert	217 64	107 37	110 27
1534	do	s. 9	760	do	do	217 64	107 37	110 27
1535	do	s. 10	760	do	do	217 64	107 37	110 27
1536	do	s. 11	760	do	do	217 64	107 37	110 27
1537	do	s. 12	760	do	do	217 64	107 37	110 27
1538	do	s. 13	760	do	do	217 64	107 37	110 27
1539	do	s. 14	760	do	do	217 64	107 37	110 27
1552	do	s. E	787	do	Frederick, Emil S.	217 64	107 37	110 27
1554	do	of 4	728	do	Reed, Joseph S., trustee	197 31	125 87	71 44
1557	do	6	728	do	Phillips, James B.	147 98	84 03	63 95
1563	do	of 9	728	do	Ordway, N. G.	445 10	283 95	161 15
1564	do	10	728	do	do	222 55	136 80	85 75
1565	do	11	728	do	do	445 10	273 57	171 53
1566	do	12	728	do	do	445 10	273 57	171 53

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
1570	Nov. 21, 1872	of 2	759	East Capitol street.	Payne, Calvin, trustee.	\$255 88	\$131 50	\$124 38	
1575	do	of 3	759	do	Oyster, George M.	184 98	95 53	89 45	
1576	do	of 4	759	do	do	322 16	166 10	156 06	
1577	do	of 4	759	do	Marceron, Rose	184 98	95 53	89 45	
1579	do	s. C	759	do	Byington, A. H.	509 08	251 15	257 93	
1587	do	of 6	786	do	Ferry, James.	204 63	130 54	74 09	
1589	do	of 2	816	do	McCallum, John	124 66	79 53	45 13	
1594	do	of 3	816	do	Collins, Robert	184 98	118 02	66 96	
1598	do	of 4	840	do	York, Lucy	221 96	141 62	80 34	
1608	do	s. 17	897	do	Prior, Charles	147 96	94 41	53 55	
1609	do	of 18	897	do	do	74 00	47 20	26 80	
1613	do	of 7	817	do	Birch, J. S.	166 48	106 21	60 27	
1615	do	of 7	817	do	Fredericks, Emil S.	23 12	14 74	8 38	
1616	do	of 8	817	do	do	319 85	204 05	115 80	
1621	do	s. 12	841	do	Fitch, Thomas	194 23	102 96	91 27	
1629	do	15	869	do	Lathrop, Chancey	471 70	259 41	212 29	
1630	do	16	869	do	do	471 70	259 41	212 29	
1633	do	19	869	do	Prout, Robert	415 04	264 78	150 26	
1634	do	20	869	do	do	471 70	300 92	170 78	
1635	do	21	869	do	do	471 70	300 92	170 78	
1637	do	23	869	do	Mason, Emanuel	693 66	356 07	337 59	
1639	do	of 10	898	do	Junkin, Charles H. W.	91 73	58 52	33 21	
1640	do	11	898	do	Fuss, W. H.	460 90	253 91	206 99	
1649	do	6	942	do	Kelley, Michael	535 28	471 50	263 78	
1650	do	of 7	942	do	Dunn, Patrick	268 22	231 22	37 00	
1655	do	9	942	do	Sparks, F. R.	535 28	341 48	193 80	
1656	do	of 1	967	do	Spaulding, Sophia H.	663 62	423 35	240 27	
1657	do	of 1	967	do	Collins, John	277 46	177 01	100 45	
1659	do	of 3	967	do	Collins, Sarah B.	462 44	295 02	167 42	
1660	do	of 3	967	do	Collins, Robert	462 45	295 02	167 43	
1662	do	of 1	919	do	Creedy, William E.	83 24	53 11	30 13	
1663	do	of 2	919	do	do	112 53	71 78	40 75	
1667	do	of 1	941	do	Maudsley, William	183 82	117 27	66 55	
1670	do	B	941	do	Campbell, Albert	212 72	129 96	82 76	
1671	do	1	966	do	Baldwin, William T.	1, 218 54	777 38	441 16	
1672	do	2	966	do	do	924 89	590 03	334 86	
1674	do	1	471	Water street	Rothwell, Andrew	554 15	244 38	309 77	

To correct error between amount of lien and old assessment.

1675	do	2	471	do	554 15	488 73	65 42
1676	do	3	471	do	554 68	489 20	65 48
1677	do	of 4	471	do	183 45	161 78	21 67
1680	do	of 2	391	do	1, 268 80	936 31	332 49
1681	do	s. 16	390	do	328 12	289 38	38 74
1682	do	s. 17	390	do	458 60	404 47	54 13
1696	Nov. 22, 1872	s. C	127	17th street	135 72	105 87	29 85
1724	do	s. 16	170	do	491 59	199 00	292 59
1725	do	s. 14	185	do	735 09	640 56	94 53
1727	do	s. R	185	do	169 65	129 65	40 00
1730	do	s. 9	185	do	212 05	153 59	58 46
1745	Nov. 23, 1872	of 9	224	G street	457 23	214 91	242 32
1746	do	of 10	224	do	457 23	233 91	223 32
1750	do	of 17	253	do	136 94	91 64	45 30
1759	do	B	376	do	727 12	248 57	278 55
1767	do	of 13	289	do	148 50	93 85	54 65
1787	do	of 1	252	do	141 08	87 53	53 55
1790	do	of 7	252	do	22 27	17 39	4 88
1806	do	of 2	319	do	149 10	118 90	30 20
1815	do	s. 105	375	do	146 02	98 05	47 97
1825	do	of 2	429	do	148 50	94 97	53 53
1826	do	of 3	429	do	518 78	255 27	263 51
1827	Dec. 9, 1872	of 13	245	13th street	184 86	118 81	66 05
1829	do	of 16	245	do	76 40	58 40	18 00
1843	do	of 1	248	do	905 83	682 48	223 35
1847	do	of 25	250	do	85 24	58 93	26 31
1860	do	of 24	253	do	140 96	72 06	68 90
1877	do	A	281	do	141 75	108 32	33 43
1899	do	of 14	288	do	115 54	105 63	9 91
1902	do	of 8 & of 9, s. 31	289	do	140 68	82 33	58 35
1903	do	of 13	256	do	124 78	80 56	44 22
1906	do	of 14	258	do	123 24	95 83	27 41
1910	do	of 15	258	do	154 06	148 97	5 09
1912	do	of 7	260	do	431 85	360 46	71 39
1917	do	8	260	do	369 72	312 97	56 75
1918	do	of 8	293	do	16 43	14 03	2 40
1922	do	of 9	293	do	131 46	112 24	19 22
1923	do	of 9	293	do	78 08	66 64	11 44
1924	do	of 4	294	do			
1928	do			do			
1930	Dec. 14, 1872	B	492	4½ street	205 59	158 87	46 72
1931	do	C	492	do	205 59	183 43	22 16
1933	do	of 13	492	do	137 22	121 25	15 97
1934	do	of 1	493	do	112 18	95 68	16 50
1935	do	of 1	493	do	106 40	81 62	24 78
1936	do	of 1	493	do	219 20	175 66	43 54
1937	do	of 14	493	do	125 19	101 84	23 35
1939	do	of 14	493	do	149 73	122 15	27 58

No interest collected by order of Commissioners, December 20, 1879.

{ Includes error in old assessment.

Reduction by revision counterbalanced by error in amount of lien.

Statement of lien certificates held by First National Bank of New York, et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
1940	Dec. 14, 1872	of 14	493	4 1/2 street	Clements, Rachel and M. E.	\$149 73	\$122 16	\$27 57	
1941	do	15	493	do	Herman, Samuel	381 44	361 91	19 53	
1942	do	14	493	do	Openheimer, M.	149 74	132 02	17 72	
1943	do	of 1	494	do	Jackson, Pompey	280 82	247 59	33 23	
1944	do	of 1	494	do	Culinane, Patrick	230 58	201 42	29 16	
1945	do	of 15	494	do	Kurch, J. H.	124 70	100 66	24 04	
1947	do	F	494	do	Gross, Caroline	118 93	88 71	30 22	
1948	do	H	494	do	Brewer, Charles J.	118 93	92 82	26 11	
1950	do	of 15	494	do	Jackson, Pompey	9 38	8 05	1 33	
1951	do	of 1	495	do	Bacon, Josephine C.	103 80	80 98	22 82	
1952	do	of 1	495	do	Mattingly, George	52 67	45 22	7 45	
1953	do	33	495	do	Culinane, M.	176 85	150 61	26 24	
1956	do	36	495	do	Mattingly, George	181 04	158 88	22 10	
1957	do	37	495	do	Walker, George F.	156 49	123 88	32 61	
1958	do	of 38	495	do	do	25 03	19 92	5 11	
1959	do	of 38	495	do	Mattingly, George	131 43	112 83	18 60	
1960	do	39	495	do	do	181 04	158 88	22 16	
1961	do	40	495	do	do	205 59	183 44	22 15	
1962	do	41	495	do	do	156 49	134 34	22 15	
1963	do	42	495	do	do	156 49	134 34	22 15	
1964	do	of 1	496	do	Pumphrey, T., et al trustees	136 12	107 76	28 36	
1966	do	of 25	496	do	Bacon, R. A.	184 69	149 40	35 29	
1967	do	of 25	496	do	do	125 72	98 83	26 89	
1968	do	of 26	496	do	Reisinger, J. E.	156 50	121 96	34 54	
1969	do	of 26	496	do	Landricht, F.	118 45	97 59	20 86	
1970	do	of 27	496	do	Vernon, Henry T.	102 80	85 53	17 27	
1971	do	of 27	496	do	Kepler, J. G.	232 67	186 77	45 90	
1973	do	of 28	496	do	Arnold, Ann E.	129 40	114 96	14 44	
1974	do	1	497	do	Ward, William H.	360 54	308 02	52 52	
1979	do	28	497	do	Connolly, J. C.	335 46	291 93	43 53	
1980	do	1	498	do	Clark, B. F.	181 04	158 88	22 16	
1981	do	33	498	do	Culinane, Patrick	178 93	157 08	21 85	
1982	do	34	498	do	Kliendenst, Jacob	181 04	158 88	22 16	
1983	do	35	498	do	O'Meara, W. C.	156 48	134 33	22 15	
1984	do	of 36	498	do	do	78 25	67 17	11 08	
1985	do	of 36	498	do	Colman, J. V., and T. Crowley	102 80	91 72	11 08	
1986	do	37	498	do	do	181 03	158 88	22 15	
1987	do	38	498	do	Riley, Terrence W.	178 03	155 88	22 15	
1988	do	39	498	do	Smedley, Anton	205 58	178 05	27 53	

1989	do	40	498	do	Nass, John	156 46	127 35	29 13
1990	do	of 41	498	do	Anderson, W. S.	112 18	95 12	17 06
1991	do	of 41	498	do	Culinane, Patrick	68 84	59 11	9 73
1992	do	of 42	498	do	do	68 35	62 17	6 18
1993	do	of 42	498	do	do	137 22	121 25	15 97
1994	do	23	499	do	Fraser, James	343 29	290 70	52 59
1995	do	of 24	499	do	Doyle, Patrick	245 22	208 92	36 30
1996	do	of 24	499	do	Callaghan, Jerome	98 06	79 34	18 72
1997	do	25	499	do	do	318 74	264 27	54 47
1998	do	26	499	do	Glick, John H.	343 29	291 90	51 39
2000	do	B	500	do	Driver, N. C.	118 45	99 91	18 54
2008	do	D	500	do	Ballenger, Francis	118 45	105 15	13 30
2012	do	26	501	do	McGrinniss, Peter	374 10	331 56	42 54
2013	do	of 27	501	do	Thomas, Edward A.	174 77	138 44	36 33
2014	do	of 27	501	do	Clarke, R. B.	174 78	153 51	21 27
2015	do	63	502	do	do	881 59	671 06	210 53
2016	do	64	502	do	Watson, L.	214 97	185 72	29 25
2017	do	65	502	do	Mitchell, N. B., trustee	205 58	172 69	32 89
2018	do	66	502	do	Ashton, Charles	205 58	172 69	32 89
2019	do	69	502	do	Smithson, Thomas E.	156 48	134 33	22 15
2020	do	70	502	do	do	181 03	158 88	22 15
2021	do	71	502	do	Clarke, Reuben B.	181 03	153 53	27 50
2022	do	72	502	do	Hill, John J.	181 03	153 53	27 50
2023	do	73	502	do	Byington, Samuel	205 58	178 07	27 51
2024	do	74	503	do	Byington, Elizabeth A.	165 87	136 62	29 25
2025	do	1	503	do	Green, Thomas E.	1,008 18	731 15	277 03
2026	do	43	503	do	Martin, Elizabeth	181 95	139 15	42 80
2027	do	44	503	do	Fineman, C., trustee	159 08	116 59	42 49
2028	do	45	503	do	Gordon, William H.	183 63	161 12	22 51
2029	do	46	503	do	Davis, Eleanor C.	184 95	142 15	42 80
2031	do	48	503	do	Wheat, James C.	243 63	212 61	31 02
2032	do	49	503	do	do	273 90	242 09	31 81
2033	do	1	504	do	Abell, John B.	816 11	615 35	200 76
2034	do	23	504	do	Prather, O. J.	740 10	498 37	241 73
2035	do	A	534	do	Barnes, W. A.	125 19	93 36	31 83
2036	do	B	534	do	do	125 70	93 82	31 88
2037	do	D	534	do	Fitzgerald, David	143 72	125 71	18 01
2038	do	E	334	do	Rockett, R. W.	113 19	97 17	16 02
2039	do	F	534	do	do	129 64	113 62	16 02
2040	do	G	534	do	Hogan, Mary	217 27	188 83	28 44
2041	do	of 15	534	do	Turner, Eliza	141 64	117 22	24 42
2042	do	of 14	534	do	Sigle, Moses	166 68	145 41	21 27
2043	do	of 14	534	do	Kiley, Margaret	183 13	146 79	36 34
2044	do	13	534	do	Lambert, Thomas	333 36	290 81	42 55
2045	do	of 12	534	do	Wise, W. D.	226 94	199 47	27 47
2047	do	of 8	535	do	Herman, J. P.	172 93	137 00	35 93
2048	do	of 8	535	do	Herman, Samuel	172 93	142 20	30 73
2050	do	of 9	535	do	O'Brien, Daniel	140 87	77 57	63 30
2051	do	of 9	535	do	Lancaster, E. F.	107 97	92 69	15 28
2055	do	of 10	535	do	Hoffman, Carl	189 38	151 33	38 05
2056	do	of 10	535	do	Herman, J. P.	156 48	134 33	22 15
2057	do	of 6	536	do	Platt, S. H.	157 28	109 12	48 16

Statement of lien certificates held by First National Bank of New York, et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
2059	Dec. 14, 1872	6 of 6	536	4½ street	Young, Mark	\$141 64	\$123 91	\$17 73	
2060	do	6 of 6	536	do	Larmbert, Rosetta	141 64	123 92	17 72	
2061	do	6 of 6	537	do	Bacon, Reuben	196 12	72 19	123 93	
2062	do	7 of 7	537	do	do	125 19	97 76	27 43	
2064	do	9 of 13	537	do	Pepper, M.	125 19	100 69	24 50	
2066	do	13 of 16	537	do	Herfurth, A., trustee	125 19	94 66	30 53	
2070	do	16 of 17	537	do	Pepper, M.	9 37	8 04	1 33	
2071	do	17 of 18	537	do	do	100 15	76 29	23 86	
2073	do	18 of 10	537	do	Kochels, Mary	166 68	124 14	42 54	
2074	do	10 of 10	538	do	Heiss, Magdalena	100 15	73 81	26 34	
2076	do	10 of 14	538	do	Kersey, James	102 51	81 46	21 05	
2077	do	14 of 15	538	do	Norment, Samuel	115 04	101 07	13 97	
2078	do	15 of 15	538	do	do	178 42	157 83	20 59	
2079	do	15 of 14	538	do	Cull, Patrick	157 29	122 04	35 25	
2087	do	14 of 10	539	do	Pumphrey, J. B.	159 63	128 14	31 49	
2090	do	10 of 11	540	do	Buckley, William, sr.	503 32	262 74	240 58	
2091	do	11 of 12	540	do	do	335 70	295 19	40 51	
2092	do	12 of 13	540	do	do	55 57	50 02	5 55	
2093	do	13 of 13	540	do	Van Riswick, John	160 41	133 81	26 60	
2094	do	13 of 8, 40	540	do	Frazier, J.	158 84	132 66	26 18	
2095	do	41 of 41	540	do	Culinane, Patrick	132 34	115 86	16 48	
2096	do	10 of 11	541	do	do	79 04	58 76	20 28	
2097	do	11 of 12	541	do	Miller, Mary	319 78	228 77	91 01	
2098	do	12 of 13	541	do	do	335 72	249 32	86 40	
2099	do	13 of 14	541	do	Farnham, Robert	319 27	232 88	86 39	
2100	do	14 of 10	541	do	do	319 27	232 88	86 39	
2101	do	10 of 11	542	do	Farnham, Jane	335 72	249 33	86 39	
2103	do	11 of 12	542	do	Smoot, S. S.	327 09	285 44	41 65	
2104	do	12 of 13	542	do	do	343 54	301 89	41 65	
2105	do	13 of 14	542	do	do	327 09	285 44	41 65	
2106	do	14 of 10	542	do	do	327 09	285 44	41 65	
2107	do	10 of 11	543	do	Riley, W. R.	327 08	285 44	41 64	
2108	do	11 of 12	543	do	do	343 53	301 89	41 64	
2109	do	12 of 13	543	do	do	343 53	301 89	41 64	
2110	do	13 of 14	543	do	Reicer, George C.	163 55	142 73	20 82	
2111	do	14 of 14	543	do	Pfeuger, C. and M.	94 70	83 61	11 09	
2112	do	14 of 14	543	do	Shelfert, Leonhart	118 25	78 00	40 25	
2113	do	14 of 14	543	do	Cassel, John T.	218 83	190 18	28 65	
2114	do	14 of 14	543	do	do	339 08	251 70	87 38	
2115	do	10 of 10	544	do	do	do	do	do	

2116	do	of 11	544	do	Coombes, J. J., et al	339 80	263 04	86 76
2117	do	12	544	do	Clark, Reuben B	333 36	290 82	42 54
2118	do	13	544	do	Farley, John, and wife	333 35	290 81	42 54
2119	do	14	544	do	do	333 36	290 81	42 55
2120	do	15	544	do	do	355 53	312 19	43 34
2121	do	s. 1	545	do	Riley, Terrence	172 94	150 79	22 15
2122	do	s. 2	545	do	do	172 93	150 79	22 14
2123	do	s. 6	545	do	Smedley, Antonio	167 24	137 38	22 14
2124	do	of s. 8	545	do	Willie, Charles	170 60	137 38	33 22
2125	do	of s. 9	545	do	Mades, James	156 48	118 49	37 99
2126	do	of s. 10	545	do	Phillips, John	116 60	90 25	26 35
2127	do	of s. 10	545	do	Hawes, C. W	72 80	54 48	18 32
2128	do	s. 11	545	do	do	172 93	122 11	50 82
2129	do	s. 12	545	do	Clark, B. F	189 38	137 41	51 97
2130	do	of s. 13	545	do	do	110 35	79 17	31 18
2131	do	of s. 15	555	do	Clark, R. B	141 65	123 93	17 72
2133	do	of s. 15	545	do	Taylor, M. E	172 94	150 78	22 16
2134	do	21	545	do	do	189 38	167 23	22 15
2136	do	s. 7	D	do	Smithson, Sarah	181 04	158 88	22 16
2137	do	s. 8	D	do	Fleming, Patrick	181 04	158 88	22 16
2138	do	s. 1	D	do	Wood, William P	992 32	872 69	119 63
2140	do	10	546	do	Smoot, S. S	533 38	466 92	66 46
2141	do	11	546	do	do	362 07	317 78	44 29
2142	do	12	546	do	do	317 18	276 93	40 25
2143	do	13	546	do	do	317 18	276 93	40 25
2144	do	14	546	do	do	316 92	276 71	40 21
2145	do	15	546	do	do	316 92	276 71	40 21
2146	do	16	546	do	do	333 63	293 39	40 24
2147	do	17	546	do	do	284 28	244 04	40 24
2148	do	18	546	do	Maack, William H. N	312 96	268 66	44 30
2149	do	19	546	do	do	485 90	419 45	66 45
2150	do	8	547	do	Smoot, S. S	358 82	314 15	44 67
2151	do	9	547	do	do	344 57	299 90	44 67
2152	do	10	547	do	do	360 61	316 40	44 21
2153	do	11	547	do	do	361 85	317 17	44 68
2154	do	12	547	do	do	347 09	302 41	44 68
2177	do	1	70	do	Woodward, William R	636 65	469 54	167 11
2178	do	of 2	70	do	Newman, I. & J	157 60	116 22	41 38
2179	do	of 2	70	do	Todd, William B	283 65	209 21	74 44
2181	do	1	71	do	Lacy, Harriet	838 34	578 06	260 28
2182	do	2	71	do	Hoover, R. B. & T. G	472 75	348 68	124 07
2183	do	2	50	do	Olmstead, John F	343 53	253 37	90 16
2184	do	3	50	do	Davidge, W. D	355 62	262 28	93 34
2185	do	4	50	do	do	343 53	253 37	90 16
2186	do	5	50	do	do	343 53	253 37	90 16
2187	do	11	51	do	Roberts, John	344 58	254 14	90 44
2188	do	12	51	do	Nugent, Shadrack	344 58	332 00	12 58
2190	do	and 3	36	do	Chandler, Daniel F	699 15	635 46	63 69
2191	do	of 13	37	do	Johnson, E	107 16	79 03	28 13
2192	do	of 14	37	do	Collins, Alfred	89 03	65 67	23 36
2195	do	of 14	37	do	Norment, Samuel	175 70	100 01	75 69
2197	do	of 14	37	do	do	do	do	do

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
2199	Feb. 1, 1873	M	25	M street	Dinock, Anthony	\$1,358 37	\$1,001 37	\$357 00	
2204	do	37	24	do	Day, Alfred	140 78	103 83	36 95	
2207	do	D	24	do	Blanchard, William	175 71	129 59	46 12	
2209	do	B	24	do	do	175 71	129 58	46 13	
2210	do	A	24	do	do	175 71	129 58	46 13	
2215	do	of 1	24	do	Fister, John	127 64	94 14	33 50	
2216	do	9	14	do	Castleman, S. D.	343 53	253 36	90 17	
2217	do	11	14	do	Serrin, David	343 53	253 37	90 16	
2218	do	12	14	do	Castleman, S. D.	343 53	253 37	90 16	
2221	do	4	13	do	Lee, Alfred	630 33	464 90	165 43	
2222	do	3	13	do	Mackall, Benjamin F.	400 25	295 22	105 03	
2225	do	of 2	13	do	Green, Salsbury	18 92	13 95	4 97	
2227	do	E	13	do	Cox, John E.	126 06	92 99	33 07	
2229	do	of C	13	do	Young, George	107 16	98 56	8 60	
2233	do	3	14	do	Armour, David	346 68	267 22	79 46	
2250	do	4	86	I street	Kervand, A. F.	278 29	239 74	38 55	
2252	do	of 5	86	do	Sutton, R. M.	85 63	73 74	11 89	
2258	do	of 9	118	do	Stott, Samuel	145 85	126 64	19 21	
2259	do	8, 31	105	do	Smith, Thomas	192 66	92 35	100 31	
2260	do	8, 32	105	do	do	133 79	71 24	62 55	
2261	do	8, 33	105	do	do	133 79	71 24	62 55	
2265	do	of 20	105	do	Embrey, James H.	171 26	91 22	80 04	
2269	do	1	106	do	Brown, Marshall	219 42	148 01	71 41	
2270	do	of 2	106	do	do	53 52	36 09	17 43	
2291	Feb. 2, 1873	of 6	487	G street	Goch, Charles	382 83	238 70	144 13	
2295	do	of 19	566	do	Bottomly, James	614 97	477 04	137 93	
2303	do	9	567	do	McDermot, Joseph	184 50	109 80	74 70	
2304	do	10	567	do	do	184 50	118 00	66 50	
2344	do	of 1	529	do	Bowen, George	203 06	147 77	55 29	
2353	do	8, 3	564	do	Rawlings, Washington	189 26	141 57	47 69	
2363	do	of 4	565	do	Williams, Thomas	100 76	84 95	15 81	
2364	do	of 4	565	do	Lynch, James S.	100 76	84 95	15 81	
2439	Feb. 5, 1873	of 20	288	12th street	Yeatman, J. H.	39 25	.....	39 25	
2449	do	1	284	do	Green, Edwin	10 00	.....	10 00	
2462	do	of 6	319	do	Barker, James A.	99 30	.....	99 30	
2472	do	of 9	319	do	Barker, James W.	69 70	.....	69 70	
2510	Feb. 6, 1873	8, 11	314	do	Miller, Mary	121 58	101 17	20 41	
2511	do	8, 12	314	do	do	121 58	101 17	20 41	
2512	do	8, 13	314	do	do	121 58	101 17	20 41	

2513	do	s. 14	314	do	do	121 58	82 92	39 56
2538	do	D	318	do	Stewart, H. Clay	617 00	567 62	49 38
2546	do	of 6	319	do	Barker, James W.	182 00	116 19	65 81
2556	do	of 9	319	do	do	401 00	328 06	72 94
2588	do	s. 14	287	do	Stewart, George C.	154 25	134 66	19 59
2589	do	1	287	do	do	154 25	119 65	34 60
2597	do	s. 14	279	do	Butler, Amelia	154 25	151 70	2 55
2616	do	A	281	do	Chapman, M. V.	141 90	113 02	28 88
2624	do	of W	281	do	Schneider, John	24 68	19 64	5 04
2630	do	of 14	281	do	Fitzhugh, J. W.	154 25	126 20	28 05
2632	do	of 20	288	do	Yeatman, J. H.	308 50	197 61	110 89
2666	do	of 11	291	E street	Bell, Pricey Ann.	148 45	116 40	32 05
2667	do	of 2	321	do	Fisher, Thomas J., trustee.	30 93	27 80	3 13
2688	do	of 19	378	do	Phillip, William H.	247 41	194 54	52 87
2689	do	of 2	406	do	Culver, F. P.	163 39	128 13	35 26
2696	do	of 13	407	do	Ingersoll, Julia	309 27	222 07	87 20
2706	do	of 3	344	H street	Bart, James A.	20 70	20 70	20 70
2707	do	of 3	344	do	Jones, William H.	20 70	20 70	20 70
2712	do	1	318	do	Bennett, C. W.	44 36	44 36	44 36
2717	do	C	318	do	Stewart, H. Clay.	22 18	22 18	22 18
2718	do	D	318	do	do	22 18	22 18	22 18
2719	do	of 10	319	do	Barker, James W.	44 51	44 51	44 51
2720	do	of 9	319	do	do	20 00	20 00	20 00
2721	do	of 9	219	do	do	42 10	42 10	42 10
2722	do	1	287	do	Stewart, George T.	88 72	88 72	88 72
2725	do	of 6	287	do	Maury, Isabella.	4 44	4 44	4 44
2728	do	20	288	do	Yeatman, John H.	43 10	43 10	43 10
2729	do	19	288	do	do	43 17	43 17	43 17
2731	do	of 18	288	do	Palley, Elizabeth G.	6 84	6 84	6 84
2732	do	of 17	288	do	do	3 80	3 80	3 80
2734	do	of 17	288	do	Stewart, Edwin	21 66	21 66	21 66
2743	do	of 1	428	do	Ailer, George.	596 82	377 78	219 04
2760	do	4	374	do	Blake, John B.	413 07	298 55	114 52
2762	do	of 6	374	do	Beall, Benjamin, trustee	139 75	70 32	69 43
2763	do	of 7	374	do	do	6 95	4 71	2 24
2776	do	of 3	344	do	Jones, William H.	163 10	124 62	38 48
2777	do	of 9	245	do	Fuss, John.	118 83	80 16	38 67
2779	do	1	318	do	Bennett, C. W.	404 06	321 37	42 69
2784	do	C	318	do	Stewart, H. Clay.	117 44	187 80	29 64
2785	do	D	318	do	do	204 25	174 60	29 65
2786	do	of 10	319	do	Barker, James W.	411 07	351 60	59 47
2787	do	of 9	319	do	do	184 88	158 14	26 74
2788	do	of 9	319	do	do	364 03	307 77	56 26
2789	do	1	287	do	Stewart, George T.	708 12	461 51	246 61
2792	do	of 6	287	do	Maury, Isabella.	34 95	25 86	9 09
2795	do	20	288	do	Yeatman, John H.	382 26	324 64	57 62
2796	do	19	288	do	do	340 18	203 54	136 64
2798	do	of 18	288	do	Palley, Elizabeth G.	53 88	44 74	9 14
2799	do	of 17	288	do	do	52 72	47 44	5 28
2836	do	6	186	Connecticut avenue	Corcoran, W. W.	226 85	160 21	66 64
2840	do	of 2	163	do	Alexander, Columbus.	42 12	25 69	16 43
2849	do	B	164	do	Harris, Thomas DeK.	91 42	55 73	35 67

Statement of lien certificates held by First National Bank of New York, et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
2856	Feb. 27, 1873	B	161	Connecticut avenue	Heiniecke, Charles	\$281 06	\$171 37	\$109 69	
2859	do	11	161	do	Spalding, W. E.	64 81	39 52	25 29	
2862	do	5	161	do	Corcoran, W. W.	200 12	142 42	57 70	
2878	do	1	91	do	Douglas, Henry	670 56	370 30	300 26	
2879	do	2	91	do	do	193 36	146 94	46 42	
2880	do	3	91	do	do	193 36	146 94	46 42	
2884	do	4	91	do	do	426 69	324 25	102 44	
2946	Mar. 1, 1873	of 7	370	10th street	Beall, Ann E.	182 35	135 58	46 77	
2969	do	1	340	do	Durr, William	430 48	307 82	122 66	
2970	do	s. 36	340	do	Jones, Mary F.	92 37	68 68	23 69	
2975	do	of s. 32	340	do	Reynolds, L. D.	46 18	33 33	12 85	
2976	do	s. 31	340	do	Simms, John W.	92 08	68 46	23 62	
2981	do	s. 26	340	do	Ward, Ulysses	92 08	68 46	23 62	
2995	do	of 15	368	do	Crown, Jeremiah	90 58	67 35	23 23	
3002	do	of 12	368	do	Shaw, Alexander	60 98	45 34	15 64	
3004	do	of 12	368	do	Ross, Airy	57 40	42 68	14 72	
3017	Mar. 7, 1873	of 16	319	11th street	Barry, Eliza	120 47	98 33	22 14	
3033	do	of 9	345	do	Tait, Alexander	65 34	53 34	12 00	
3036	do	of 12	318	do	Wilson, John	81 67	66 67	15 00	
3038	do	of 12	318	do	do	81 61	66 67	14 94	
3039	do	of 11	318	do	do	116 38	95 01	21 37	
3041	do	10	318	do	do	174 57	142 50	32 07	
3042	do	11	318	do	do	265 43	216 67	48 76	
3048	do	of 1	317	do	Carusi, Lewis	12 25	10 00	2 25	
3049	do	of 14	317	do	do	57 17	46 67	10 50	
3057	do	of 12	317	do	McCoy, Benjamin	89 85	73 34	16 51	
3085	do	of 7	315	do	Wright, John W.	408 36	333 35	75 01	
3092	do	of 6	341	do	Chase, William	102 10	83 34	18 76	
3094	do	of 7	341	do	McCarthy, Eugene	20 42	1 39	19 03	
3353	Mar. 11, 1873	s. 31	314	do	Farnham, Robert jr.	84 05	68 62	15 43	
3354	do	s. 30	314	do	do	84 05	68 62	15 43	
3355	do	s. 29	314	do	do	84 05	68 62	15 43	
3119	Mar. 22, 1873	s. 2	203	14th street	Fleishman, Charles L.	165 87	126 53	39 34	
3120	do	s. 3	203	do	do	165 87	126 53	39 34	
3121	do	s. 9	203	do	Cole, Elisha	165 87	132 83	33 04	
3132	do	s. 33	204	do	Myers, John G.	165 87	132 83	33 04	
3133	do	s. 34	204	do	do	165 87	132 83	33 04	
3144	do	s. 103	206	do	Blanchman, John S.	203 19	161 12	42 07	
3147	do	67	207	do	Klingbe, J. P.	179 09	134 50	45 19	

Correction of frontage.

3148	do	68	207	do	do	165 87	126 43	39 44
3152	do	74	207	do	Joyce, John L.	165 87	126 43	39 44
3153	do	75	207	do	Henderson, John	165 87	126 43	39 44
3154	do	76	207	do	Klingbe, J. P.	179 69	137 09	42 60
3155	do	77	207	do	do	179 69	137 09	42 60
3157	do	79	207	do	Henderson, William	165 87	126 43	39 44
3159	do	81	207	do	Farless, Benjamin A.	165 87	126 43	39 44
3162	do	84	207	do	Judd, John I.	165 87	126 43	39 44
3168	do	85	207	do	do	165 87	126 43	39 44
3166	do	104	206	do	Evans, Thomas	207 34	150 62	56 72
3167	do	105	208	do	do	207 34	150 63	56 71
3172	do	of 32	209	do	Crown, John F.	186 60	149 44	37 16
3174	do	of 33	209	do	Main, R. S.	186 60	149 44	37 16
3178	do	of 36	209	do	Thompson, James	207 34	166 03	41 31
3179	do	of 77	210	do	Riggs, George W.	165 88	126 43	39 45
3238	do	A	258	do	Barker, James W.	172 78	138 36	34 42
3239	do	B	238	do	do	172 78	138 36	34 42
3240	do	C	238	do	do	172 78	138 36	34 42
3241	do	11	238	do	Washington City Orphan Asylum	518 35	415 10	103 25
3246	do	s. 10	239	do	do	414 68	332 07	82 61
3247	do	s. 11	239	do	do	414 68	332 07	82 61
3248	do	s. 12	239	do	do	414 68	332 07	82 61
3249	do	s. 13	239	do	do	414 68	332 07	82 61
3268	do	2	236	do	Hurley, James W.	165 87	126 44	39 43
3269	do	3	236	do	do	165 87	126 43	39 44
3272	do	7	236	do	Lerner, Noble D.	165 87	132 83	33 04
3273	do	11	236	do	Partello, Charlotte E.	165 87	126 43	39 44
3279	do	s. 21	234	do	Daily, William	174 17	139 47	34 70
3280	do	s. 22	234	do	do	174 17	139 47	34 70
3281	do	s. 23	234	do	do	174 17	139 47	34 70
3302	Apr. 15, 1873	of 6	925	do	Corporation of Washington	181 50	178 29	3 21
3304	do	of 8	925	do	Kahlman, Carl F.	84 72	73 78	10 94
3334	do	of 24	904	do	McKim, John	53 43	44 40	9 03
3340	do	of 30	904	do	O'Donnell, James D.	23 68	20 63	3 05
3341	do	of 1	904	do	do	150 73	143 52	7 21
5	Apr. 5, 1873	of 131	69	do	Brown, Daniel, heirs of	151 70	76 20	75 50
11	do	143, 142	66	do	Augur, C. C.	493 03	132 99	360 04
12	do	of 141	65	do	Mountz, Jacob	170 65	122 10	48 55
21	do	161	41	do	Cox, John E.	140 08	90 24	40 84
22	do	162	41	do	do	140 08	99 23	40 85
23	do	163	41	do	do	140 08	99 23	40 85
25	Apr. 7, 1873	of 164	41	do	Godey, Walter	141 92	123 63	18 29
27	do	of 114	71	do	Williams, Elizabeth	90 10	52 65	37 45
31	do	of 115	70	do	Payne, Lewis	110 38	96 15	14 23
34	do	of 138	65	do	do	45 05	39 26	5 79
43	do	of 150	65	do	Craig, George	183 96	137 50	46 46
3	Apr. 14, 1873	37	.....	do	Genau, Daniel	39 58	9 87	29 71
4	do	of 38	.....	do	Holland, W. M.	19 65	4 91	14 74
11	do	of 42	.....	do	Ullman, Joseph	19 65	4 91	14 74
12	do	of 43	.....	do	Browmore, John	19 65	4 90	14 75
14	do	45 to 52	.....	do	Hoover, S. S.	314 45	78 61	235 84

No interest collected, by order of Commissioner Dent.

Statement of lien certificates held by First National Bank of New York, et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
2856	Feb. 27, 1873	B	161	Connecticut avenue.	Heinicke, Charles.	\$281 06	\$171 37	\$109 69	
2859	do	11	161	do	Spalding, W. E.	64 81	39 52	25 29	
2862	do	5	161	do	Corcoran, W. W.	200 12	142 42	57 70	
2878	do	1	91	do	Douglass, Henry.	670 56	370 30	300 26	
2879	do	2	91	do	do	193 36	146 94	46 42	
2880	do	3	91	do	do	193 36	146 94	46 42	
2884	do	4	91	do	do	426 69	324 25	102 44	
2946	Mar. 1, 1873	of 7	370	10th street.	Beall, Ann E.	182 35	135 58	46 77	
2969	do	1	340	do	Durr, William.	430 48	307 82	122 66	
2970	do	s. 36	340	do	Jones, Mary F.	92 37	68 68	23 69	
2975	do	of s. 32	340	do	Reynolds, L. D.	46 18	33 33	12 85	
2976	do	s. 31	340	do	Simms, John W.	92 08	68 46	23 62	
2981	do	s. 26	340	do	Ward, Ulysses.	92 08	68 46	23 62	
2995	do	of 15	368	do	Crown, Jeremiah.	90 58	67 35	23 23	
3002	do	of 12	368	do	Shaw, Alexander.	60 98	45 34	15 64	
3004	do	of 12	368	do	Ross, Airy.	57 40	42 68	14 72	
3017	Mar. 7, 1873	of 16	319	11th street.	Barry, Eliza.	120 47	98 33	22 14	
3033	do	of 9	345	do	Tait, Alexander.	65 34	53 34	12 00	
3036	do	of 12	318	do	Wilson, John	81 67	66 67	15 00	
3038	do	of 12	318	do	do	81 61	66 67	14 94	
3039	do	of 11	318	do	do	116 38	95 01	21 37	
3041	do	10	318	do	do	174 57	142 50	32 07	
3042	do	11	318	do	do	265 43	216 67	48 76	
3048	do	of 1	317	do	Carusi, Lewis	12 25	10 00	2 25	
3049	do	of 14	317	do	do	57 17	46 67	10 50	
3057	do	of 12	317	do	McCoy, Benjamin	89 85	73 34	16 51	
3085	do	of 7	315	do	Wright, John W.	408 36	333 35	75 01	
3092	do	of 6	341	do	Chase, William	102 10	83 34	18 76	
3094	do	of 7	341	do	McCarthy, Eugene.	20 42	1 39	19 03	
3353	Mar. 11, 1873	s. 31	314	do	Farnham, Robert jr.	84 05	68 62	15 43	
3354	do	s. 30	314	do	do	84 05	68 62	15 43	
3355	do	s. 29	314	do	do	84 05	68 62	15 43	
3119	Mar. 22, 1873	s. 2	203	14th street.	Fleishman, Charles L.	165 87	126 53	39 34	
3120	do	s. 3	203	do	do	165 87	126 53	39 34	
3121	do	s. 9	203	do	Cole, Elisha.	165 87	132 83	33 04	
3132	do	s. 33	204	do	Myers, John G.	165 87	132 83	33 04	
3133	do	s. 34	204	do	do	165 87	132 83	33 04	
3144	do	s. 103	206	do	Blanchman, John S.	203 19	161 12	42 07	
3147	do	67	207	do	Kingle, J. P.	179 69	134 50	45 19	

Correction of frontage.

3148	do	68	207	do	do	165 87	126 43	39 44
3152	do	74	207	do	Joyce, John L.	165 87	126 43	39 44
3153	do	75	207	do	Henderson, John	165 87	126 43	39 44
3154	do	76	207	do	Klingbe, J. P.	179 69	137 09	42 60
3155	do	77	207	do	do	179 69	137 09	42 60
3157	do	79	207	do	Henderson, William	165 87	126 43	39 44
3159	do	81	207	do	Farless, Benjamin A	165 87	126 43	39 44
3162	do	84	207	do	Judd, John I.	165 87	126 43	39 44
3163	do	85	207	do	do	165 87	126 43	39 44
3166	do	104	208	do	Evans, Thomas	207 34	150 62	56 72
3167	do	105	208	do	do	207 34	150 63	56 71
3172	do	of 32	209	do	Crown, John F.	186 60	149 44	37 16
3174	do	of 33	209	do	Main, R. S.	186 60	149 44	37 16
3178	do	of 36	209	do	Thompson, James	207 34	166 03	41 31
3179	do	of 77	210	do	Riggs, George W.	165 88	126 43	39 45
3238	do	A	238	do	Barker, James W	172 78	138 36	34 42
3239	do	B	238	do	do	172 78	138 36	34 42
3240	do	C	238	do	do	172 78	138 36	34 42
3241	do	11	238	do	do	518 35	415 10	103 25
3246	do	s. 10	239	do	Washington City Orphan Asylum	414 68	332 07	82 61
3247	do	s. 11	239	do	do	414 68	332 07	82 61
3248	do	s. 12	239	do	do	414 68	332 07	82 61
3249	do	s. 13	239	do	do	414 68	332 07	82 61
3268	do	2	236	do	Hurley, James W.	165 87	126 44	39 43
3269	do	3	236	do	do	165 87	126 43	39 44
3272	do	7	236	do	Lerner, Noble D.	165 87	132 83	33 04
3273	do	11	236	do	Partello, Charlotte E.	165 87	126 43	39 44
3279	do	s. 21	234	do	Daily, William	174 17	139 47	34 70
3280	do	s. 22	234	do	do	174 17	139 47	34 70
3281	do	s. 23	234	do	do	174 17	139 47	34 70
3302	do	of 6	925	do	Corporation of Washington	181 50	178 29	3 21
3304	do	of 8	925	do	Kahlman, Carl F.	84 72	73 78	10 94
3334	do	of 24	904	do	McKim, John	53 43	44 40	9 03
3340	do	of 30	904	do	O'Donnell, James D	23 68	20 63	3 05
3341	do	of 1	904	do	do	150 73	143 52	7 21
5	Apr. 5, 1873	of 131	69	do	Brown, Daniel, heirs of	151 70	76 20	75 50
11	do	143, 142	66	do	Augur, C. C.	493 03	132 99	360 04
12	do	of 141	65	do	Mountz, Jacob	170 65	122 10	48 55
21	do	161	41	do	Cox, John E.	140 08	99 24	40 84
22	do	162	41	do	do	140 08	99 23	40 85
23	do	163	41	do	do	140 08	99 23	40 85
25	Apr. 7, 1873	of 164	41	do	Godey, Walter	141 92	123 63	18 29
27	do	of 114	71	do	Williams, Elizabeth	90 10	52 65	37 45
31	do	of 115	70	do	Payne, Lewis	110 38	96 15	14 23
34	do	of 138	65	do	do	45 05	39 26	5 79
43	do	of 150	65	do	Craig, George	183 96	137 50	46 46
3	Apr. 14, 1873	37	do	do	Genau, Daniel	39 58	9 87	29 71
4	do	of 38	do	do	Holland, W. M.	19 65	4 91	14 74
11	do	of 42	do	do	Ullman, Joseph	19 65	4 91	14 74
12	do	of 43	do	do	Browmore, John	19 65	4 90	14 75
14	do	45 to 52	do	do	Hoover, S. S.	314 45	78 61	235 84

No interest collected, by order of Commissioner Dent.

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
15	Apr. 14, 1873	58		7th street road	Donaldson, F. A.	\$39 30	\$9 80	\$29 50	
16	do	59, 60		do	Mattock, Jeremiah	78 58	19 65	58 93	
17	do	62, 63		do	Widmayer, Christopher	78 58	19 60	58 98	
18	do	64 to 67		do	Weaver, Thomas	151 35	37 77	113 58	
20	do	69, 70		do	Eslin, C. J.	72 78	18 15	54 63	
21	do	71, 100		do	Tobiner, Joanna	133 64	33 33	100 31	
22	do	72, 73		do	Byer, Louis	72 78	18 15	54 63	
23	do	of 76		do	Quilter, John	19 45	4 85	14 60	
24	do	of 76, 77		do	Donavan, Thomas	29 17	7 28	21 89	
25	do	78,		do	Holan, John	48 62	12 13	36 49	
27	do	83		do	Lewis, L. A.	24 31	6 06	18 25	
28	do	84		do	White, Thomas	24 31	6 06	18 25	
29	do	85		do	White, Michael	24 31	6 06	18 25	
30	do	86		do	Geyer, R. C.	24 31	6 06	18 25	
31	do	87		do	Harrington, William	24 31	6 06	18 25	
32	do	88, 89, 90		do	Myers, Matthew	72 73	18 19	54 54	
33	do	91		do	Donohue, Thomas	24 31	6 07	18 24	
35	do	93		do	Whittaker, J. T.	24 31	6 06	18 25	
36	do	94, 95		do	Carroll, Roger	48 62	12 13	36 49	
37	do	of 96		do	Fleming, R. I.	20 42	5 09	15 33	
38	do	of 96 & C		do	Brainard, Normand	875 01	218 23	656 78	
39	do	98		do	Mahoney, John	24 31	6 06	18 25	
40	do	99		do	Hening, W. R.	24 31	6 06	18 25	
42	do	101 to 104		do	Backus, August	97 25	24 25	73 00	
43	do	1-16 and 6		do	Brown, Marshall	2, 690 45	671 51	2, 018 94	
44	do	1-30 & 6		do	Wright, J. W. and J. B.	729 34	181 90	547 44	
46	do	1 of 32		do	Clarkson, Robert	72 93	18 19	54 74	
47	do	31, 32		do	Bright, George T.	72 93	18 19	54 74	
49	do	29	3	do	King, Thomas E.	48 62	12 13	36 49	
50	do	28	6	do	Young, Richard	48 62	12 13	36 49	
51	do	1	8	do	Heller, P. H.	48 62	12 13	36 49	
52	do	28	8	do	Widmeyer, William	48 62	12 13	36 49	
54	do	28	10	do	Mullen, W. I.	48 62	12 13	36 49	
55	do			7th street road, west side.	Turner, John	586 39	146 24	440 15	
56	do			do	Merhling, Darius	255 37	63 69	191 68	
57	do			do	Wineberger, John T.	127 98	31 92	96 06	
58	do			do	Kuatz, Conrad	48 62	12 13	36 49	
59	do			do	Devan, Joshua	105 80	23 77	82 03	

60	do		do	Long, Margaret	130 30	32 62	98 13
61	do		do	Widmeyer, Christian	70 02	17 46	52 56
62	do		do	Summey, Benjamin	1, 226 97	306 75	920 22
63	do		do	Heine, William	577 64	144 06	433 58
65	do		do	Helmiller, Henry	320 88	80 28	240 60
66	do		do	Ruppert, John	843 12	210 27	632 85
67	do		do	Saul, John	1, 675 52	418 12	1, 257 40
68	do		do	Pearson, Catherine, heirs of	425 74	106 18	319 56
69	do		do	White, Mrs. H., heirs of	5, 224 44	1, 302 96	3, 921 48
70	do		do	Carusi, B., trustee	621 40	154 98	466 42
72	do	105, 106	do	Lacomb, George	48 62	12 13	36 49
74	do	110 to 114	do	Fitzgerald, Dennis	124 03	30 94	93 09
75	do	do	do	Shoemaker, Abigail	920 92	229 67	691 25
76	do		do	Bell, William	1, 188 54	296 42	892 12
77	do		do	King, John	175 43	43 75	131 68
78	do		do	Mitchell, George W.	525 52	131 06	394 46
79	do		do	Claggett, John B.	289 30	71 08	218 22
80	do		do	Van Kiskwick, John	278 58	69 73	208 85
81	do		do	Shoemaker, A. C. P.	2, 742 04	683 86	2, 058 18
82	do		do	Schade, J. H.	542 24	135 23	407 01
83	do		do	Cowling, W. H.	339 38	84 64	254 74
84	do		do	Reeves, Samuel, heirs of	1, 041 30	259 70	781 60
85	do		do	Bell, William	312 74	78 00	234 74
86	do		do	Butt, Sarah A.	2, 001 26	499 61	1, 501 65
87	do		do	Cissell, Thomas	284 93	71 06	213 87
88	do		do	McChesny, J. H.	142 46	35 53	106 93
89	do		do	Cammack, John	308 46	76 93	231 53
90	do		do	Gass, S. G.	458 97	114 72	344 25
91	do		do	May, Phillip	435 66	108 92	326 74
92	do		do	Widmeyer, John, heirs of	433 71	108 17	325 54
93	do		do	Washington Schutzen Park	836 31	209 08	627 23
94	do		do	Glick, John H.	303 40	75 67	227 73
96	do		do	Bakersmith, John	91 78	22 89	68 89
97	do		do	Krause, Henry	94 20	23 49	70 71
102	do	2	do	Sterling, Joseph A.	48 62	12 13	36 49
104	do	4, 5	do	Prescott, John A.	97 24	24 25	72 99
105	do	6	do	Johnson, Joseph T.	48 62	12 13	36 49
108	do		do	Bell, Mrs. W. D.	405 51	101 13	304 38
111	do	3 and 4	do	Buxton, C. H.	102 69	25 61	77 06
112	do	5	do	Kimball, Mrs. H. L.	51 35	12 80	38 55
113	do		do	Cole, John A.	27 03	6 74	20 29
115	do		do	Barbour, A. L. & Co.	515 94	128 48	387 46
114	do	Block 2	do	Lacomb, George	24 31	6 06	18 25
116	do		do	Barbour, A. L. & Co.	41 69		41 69
117	Feb. 17, 1873			Davis, Henry S.	684 52		684 52
118	do			Babbington, W., heirs of	392 67		292 67
				Columbia turnpike		100 00	

Statement of lien certificates held by First National Bank of New York et al., as affected by the revision of assessments—Continued.

Number of lien certificate.	Date of issue.	Lot.	Square.	Street.	To whom assessed.	Amount of original assessment.	Net amount of revised assessment.	Reduction.	Amount paid into court, &c.
119	Feb. 17, 1873			Columbia turnpike	Corcoran, W. W.	\$1, 077 78		\$1, 077 78	
120	do			do	Palmer, Dr	537 72		537 72	
121	do			do	Ruppert, Anthony	601 98		601 98	
122	do			do	Auth, Santus	383 25		383 25	
123	do			do	Louer, George	458 70		458 70	
124	do			do	Rives, Frank	649 73		649 73	
125	do			do	Dockety, W. E.	1, 207 50		1, 207 50	
126	do			do	Reform farm	906 22		906 22	
127	do			do	Veich, John, heirs of	524 74		524 74	
128	do			do	Rives, Wright	747 61		747 61	
129	do			do	Talbert, Tobias	637 36		637 36	
130	do			do	Cox, Matilda	306 00		306 00	
131	do			do	Mills, Clark	603 16		603 16	
132	do			do	Howard, James Q	496 15		496 15	
133	do			do	Kinny, Christian	215 20		215 20	
134	do			do	Augustifer, J. F.	115 56		115 56	
135	do			do	Stevenson, Henry	100 53		100 53	
3387	Sept. 24, 1872	7	251	do	District of Columbia	32 00		32 00	
3388	Feb. 6, 1872	of 4	315	do	do	24 70		24 70	
3389	Feb. 4, 1872	of 4	315	do	do	3 81		3 81	
3390	Feb. 5, 1872		288	do	do	54 36		54 36	
2437	Feb. 4, 1873	s. 4	315	do	do	3 81		3 81	
2528	Feb. 6, 1873	s. 4	315	12th street	do	24 70		24 70	
2755	Feb. 12, 1873	s. 30	374	H street	do	125 80		125 80	
143	Feb. 17, 1873			Columbia turnpike, west side.	do	10 32		10 32	
136	do			Columbia turnpike	Healy, Mrs. H. G.	216 98		216 98	
137	do			do	Ghegan, Phillip	331 35		331 35	
138	do			do	Schaefer, S. F.	125 00		125 00	
139	do			do	Jordan, Martha E.	93 75		93 75	
140	do			do	King, J. J.	1, 277 08		1, 277 08	
142	do			do	Rives, John C., estate of	1, 000 55		1, 000 55	
3385	Nov. 22, 1872			17th street, New York avenue to M street.	Met. R. R. Co.	7, 852 80	\$7, 362 00	490 80	
						279, 009 77	173, 489 18	105, 520 59	

Duplication of liens, see No. 3342.

APPENDIX X 19.

TABLE M.

SPECIAL ASSESSMENT DEVISION.

APPENDIX 5.—*Statement of the amounts charged in the revision of special assessments against the several street railroad companies in the cities of Washington and Georgetown, D. C., for the pavement of the carriageway.*

RECAPITULATION.

	Square yards of pavement occupied by railroad track, + 2 feet outside of each outer rail.	Amount assessed against railroad company.	Amount paid by railroad company.	Balance due by railroad company.
Capitol, North O and South Washington Railroad Company.	.....	\$2, 828 85	\$2, 828 85	.....
Columbia Railroad Company.....	4, 871. 74	11, 257 27	.....	\$11, 257 27
Connecticut Avenue and Park Railroad Company, in District of Columbia, or their successors.	2, 218. 52	6, 655 56	.....	6, 655 56
Metropolitan Railroad Company.....	53, 306. 277	162, 898 10	.....	162, 898 10
Washington and Georgetown Railroad Company....	15, 933. 24	76, 313 07	12, 207 27	64, 105 80
	76, 329. 777	259, 952 85	15, 036 12	244, 916 73

Statement of the amounts charged in the revision of assessments against street railways for the pavement of the carriageway.

[In this statement no charge is made, nor area given, except work done by the District.]

THE CAPITOL, NORTH O STREET AND SOUTH WASHINGTON RAILROAD COMPANY.

Street	Limits of assessment.	Square yards of pavement occupied by railroad track, plus two feet outside of each outer rail.	Amount assessed against railroad company.	Amount paid by railroad company.	Balance due by railroad company.	Rate per square yard charged railroad company.	
Maryland avenue	From 7th street west to 1st street west.						No charge to railroad company.
1st street west	From Maryland avenue to G street north.						Railroad track laid after improvement.
G street north	From 1st street west to 4th street west.						No charge to railroad company.
4th street west	From G street north to O street north.						Do.
New Jersey avenue	From O street north to P street north.						No assessment.
P street north	From New Jersey avenue to 11th street west.						No charge to railroad company.
O street north	do.						Do.
11th street west	From P street north to E street north.						Do.
E street north	From 11th street west to 14th street west.						Do.
14th street west	From E street north to Ohio avenue.						Do.
Ohio avenue	From 14th street west to 12th street west.						Do.
12th street west	From Ohio avenue to Virginia avenue.						Do.
Virginia avenue	From 12th street west to 9th street west and C street south.						Do.
C street south	From 9th street west to 7th street west and Maryland avenue.						Do.
			\$2, 828 85	\$2, 828 85			On improvement of Pennsylvania avenue from Capitol to 15th street west.
			2, 828 85	2, 828 85			

THE COLUMBIA RAILROAD COMPANY.

New York avenue.....	From 9th street west to 14th street west.	329.00	\$1,052 80	\$3 20	Lien certificate issued for \$1,052.80 by board of public works September 2, 1872, and held by First National Bank of New York City.
K street north.....	From 7th street west to 23d street west.	226.66	725 31	3 20	
Massachusetts avenue....	From New York avenue to Boundary street.	795.55	2,625 31	3 30	
H street north.....	From 4th street west to 1st street east.	1,258.31	2,264 96	1 80	
H street north.....	From 1st street east to 15th street east.	2,262.22	4,588 89	1 75	
		4,871.74	11,257 27		

THE CONNECTICUT AVENUE AND PARK RAILWAY COMPANY, IN DISTRICT OF COLUMBIA, OR THEIR SUCCESSORS.

Connecticut avenue.....	From H street north to Boundary st.	2,218.52	\$6,655 56	\$3 00
		2,218.52	6,655 56	

THE METROPOLITAN RAILROAD COMPANY.

East Capitol street.....	From 1st street east to 11th street east.	7,874.00	\$25,984 50	\$3 30	No charge to railroad company.
1st street east.....	From C street south to C street north.	1,476.10	4,428 48	\$3 00	
B street north.....	From Delaware avenue to 1st street east.				
Delaware avenue.....	From B street north to C street north.				Do.
C street north.....	From 1st street west to 3d street east	2,066.67	6,613 33	3 20	No assessment.
New Jersey avenue....	From B street north to O street north.	341.40	1,126 62	3 30	
D street north.....	From 4th street west to New Jersey avenue.	1,453.67	4,797 12	3 30	
Indiana avenue.....	From 4th street west to 1st and C street north west.				Do.
Louisiana avenue.....	From City Hall to 5th street west				No charge to railroad company.
5th street west.....	From Louisiana avenue to F street north.				
F street north.....	From 5th street west to 14th street west.	{ 1,362.87 2,048.00 275.31	{ 4,497 54 7,164 50 825 99	{ 3 30 3 50 3 00	Wood. This charge was for Belgian pavement; none charged to property holders. Concrete.

Statement of the amounts charged in the revision of assessments against street railways for the pavement of the carriageway—Continued.

THE METROPOLITAN RAILROAD COMPANY—Continued.

Street.	Limits of assessment.	Square yards of pavement occupied by railroad track, plus two feet out-side of each outer rail.	Amount assessed against railroad company.	Amount paid by railroad company.	Balance due by railroad company.	Rate per square yard charged railroad company.	
14th street west	From F street north to H street north.	1,965.90	\$5,897 70	.....	\$5,897 70	\$3 00	
H street north	From 15th street west to Vermont avenue.	141.777	467 87	.....	467 87	3 50	
H street north	From 14th street west to 15th street west.						No assessment.
17th street west	From New York avenue to M street north.	2,454.00	7,362 00	.....	7,362 00	3 00	Lien certificate for \$7,852.80, issued by board of public works, November 22, 1872, and held by First National Bank of New York City.
Connecticut avenue	From H street north to Boundary st	5,975.83	17,927 49	.....	17,927 49	3 00	Wood.
P street north	From New Jersey avenue to Rock Creek.	{ 2,323.28 356.72 }	{ 4,878 89 1,070 16 }	.....	{ 4,878 89 1,070 16 }	{ 2 10 3 00 }	Concrete.
7th street road							No charge to railroad company.
Boundary street	From 6th street west to 9th street west.	261.29	914 52	.....	914 52	3 50	
9th street west	From M street north to Boundary	{ 2,729.50 5,451.00 }	{ 8,188 50 17,988 30 }	.....	{ 8,188 50 17,988 30 }	{ 3 00 3 30 }	Concrete.
9th street west	From Pennsylvania avenue to M street north.	8,219.88	24,659 64	.....	24,659 64	3 00	Wood.
9th street west	From B st north to Pennsylvania avenue.						Concrete.
B street north	From 7th street west to 10th street west.						No charge to railroad company.
B street north	From 6th street west to 7th street west.						Do.
6th street west	From Pennsylvania avenue to Water street.						Do.
Louisiana avenue	From 3d street west to 6th street west.						Do.

4 1/2 street west	From Missouri avenue to P street south.				Do.
O street south	From 4 1/2 street west to Water street				Do.
Pennsylvania avenue	From Capitol to 15th street west.	139.00	1,275 15	1,275 15	Concrete. Lien certificate for \$444.80, issued by board of public works, September 2, 1872, and held by First National Bank of New York City.
New York avenue	From 9th street west to 15th street west.		444 80	444 80	Concrete.
West street	From High street to Rock Creek.	{ 340.00	1,020 00	1,020 00	Wood.
3d street	From High street to Fayette street	{ 2,150.00	4,085 00	4,085 00	Do.
Fayette street	From 3d street to 2d street	{ 1,450.00	4,785 00	4,785 00	No assessment.
2d street	From Fayette street to High street	1,600.00	5,280 00	5,280 00	Do.
Dunbarton street	From Green street to Monroe street				Wood.
Dunbarton street	From Green street to Congress street.				No charge to railroad company.
Dunbarton street	From Congress street to High street				No assessment.
Montgomery street	From Bridge street to West street	600.00	390 00	390 00	No charge to railroad company.
High street	From the Canal to Road street	250.00	825 00	825 00	Wood.
		53,306.277	162,898 10	162,898 10	

THE WASHINGTON AND GEORGETOWN RAILROAD COMPANY.

8th street east	From Pennsylvania avenue to M street south.	1,155.55	\$4,044 42	\$4,044 42	Wood. Lien certificate for \$2,894.50, issued by board of public works April 15, 1873, and held by First National Bank of New York City.
Pennsylvania avenue southeast.	From 1st street east to 8th street east.				Track laid in the middle parking of the street at company's expense.
B street south	From New Jersey avenue to 2d street east.	{ 71.11	248 89	248 89	Wood.
1st street west	From B street south to Pennsylvania avenue.	{ 525.63	1,682 02	1,682 02	Asphalt.
1st street west	From Pennsylvania avenue to I street north.				No assessment.
C street north	From 1st street west to 3d street east.	820.00	2,624 00	2,624 00	Railroad track laid after improvement.
New Jersey avenue	From B street north to O street north.	188.33	621 49	621 49	
Pennsylvania avenue	From Capitol gates to 15th street west.				Payment made July 17, 1877.
15th street west	From Pennsylvania avenue to New York avenue.		19,886 69	7,679 42	No assessment.
Pennsylvania avenue northwest.	From 15th street to Rock Creek	{ 2,426.00	8,617 00	8,617 00	Wood. Lien certificate, \$11,842.60, issued by board of public works September 26, 1872, and held by First National Bank of New York City.
26th street west	From Pennsylvania avenue to M street north.	{ 1,008.00	3,225 60	3,225 60	Concrete.
					Railroad track laid after improvement.

Statement of the amounts charged in the revision of assessments against street railways for the pavement of the carriageway—Continued.

THE WASHINGTON AND GEORGETOWN RAILROAD COMPANY—Continued.

Street.	Limit of assessment.	Square yards of pavement occupied by railroad track, plus two feet out-side of each outer rail.	Amount assessed against railroad company.	Amount paid by railroad company.	Balance due by railroad company.	Rate per square yard charged railroad company.	Wood.	
Bridge street	From Rock Creek to stables near Market street.	998.89	\$3,461.11	.....	\$3,461.11	\$3.50		
7th street west	From B street south to river.	1,860.00	7,068.00	.....	7,068.00	3.80	2	Lien certificate for \$7,068.00, issued by board of public works August 15, 1872, and held by First National Bank of New York City.
7th street west	From B street north to Q street north.	2,953.18	9,745.49	.....	9,745.49	3.30		No charge to railroad company.
7th street west	From B street north to B street south.	.....	.....	.....	.....	.....		No assessment.
7th street west	From Q street north to Boundary street.	224.00	716.80	.....	716.80	3.20		Concrete. Lien certificate for \$716.80, issued by board of public works September 2, 1872, and held by First National Bank of New York City.
New York avenue	From 15th street west to 14th street west.	.....	.....	.....	.....	.....		
14th street west	From F street north to H street north.	555.55	1,606.66	.....	1,606.66	3.00		Lien certificate for \$4,103.30, issued by board of public works August 23, 1872, and held by First National Bank of New York City.
14th street west	From H street north to N street north.	1,109.00	4,103.30	.....	4,103.30	3.70		Lien certificate for \$4,103.30, issued by board of public works March 22, 1873, and held by First National Bank of New York City.
14th street west	From N street north to Boundary.	2,048.00	8,601.60	.....	8,601.60	4.20		
		15,933.24	76,313.07	\$12,207.27	64,105.80	.....		

APPENDIX X 20.

TABLE N.

SPECIAL ASSESSMENT DIVISION.

APPENDIX 6.—Statement of assessments for special improvements on property held by educational, charitable, and religious institutions, &c., exemption claimed.

To whom assessed.	Street.	Square.	Lot.	Amount.
A. R. B. Church	E street	457	20	\$292 11
Do	do	457	19	37 72
St. Peter's Church	2d street	733	27	108 68
Do	do	733	26	108 66
St. Vincent Orphan Asylum	do	733	30	124 02
M. J. Spaulding trust	do	733	29	108 67
Do	do	733	28	108 68
Lincoln School	do	762	5	317 46
Washington City Orphan Asylum	C street	791	s. B.	59 18
Do	do	791	s. C.	59 18
Do	do	791	s. E.	59 18
Do	do	791	s. F.	59 18
Do	13½ street	259	of 7	94 97
Do	do	259	of 8	94 98
Church	14th street	252	9	171 86
Do	do	252	of 10	127 12
Washington City Orphan Asylum	do	239	15	71 65
Do	do	239	14	71 65
Do	do	239	10	253 28
Church	6th street	846	15	195 48
Do	do	846	of 16	71 78
Do	R street	207	s. 19	97 72
Do	do	207	s. 20	97 72
Do	do	207	s. 21	97 72
Do	do	207	s. 22	97 72
Do	do	207	s. 23	97 72
St. Patrick's Church	F street	376	4 to 8	1, 565 14
Wesley Church	do	488	10	432 61
Church	P street	365	s. 1	617 75
Do	do	478	1	486 73
Little Sisters of the Poor	H street	751	1 and 2	146 50
Washington Hospital for Foundlings	Johnson avenue	207	31 to 37	87 14
Colored Orphan Asylum	8th street extended		s. 115 to 119	117 85
Methodist Episcopal Church	Dunbarton street	73	39	188 98
Washington City Orphan Asylum	S street	239	13 to 15	1, 043 31
Church	do	395	s. 30	193 27
Do	Beall street	73	of 46	90 22
Do	do	73	51	160 55
Gonzaga College	D street	756	7, 8	19 14
Church	do	266	s. 2	319 75
Do	do	387	s. 22	75 84
Georgetown College	C street	691	11	34 65
Colored School	do	762	5	57 64
do	do	762	4	58 84
Georgetown College	do	763	12	83 56
Gonzaga College	2d street	756	4 to 7	310 83
Mt. Olive Baptist Church	6th street	829	s. 49	37 16
Do	do	829	s. 50	37 16
St. Ann Infant Asylum	K street	39	All	508 12
Roman Catholic Church	M street	698	1 to 6	574 76
Sisters of Visitation of Georgetown	7th street	858	C, D, E, F, G	190 18
Church	1st street	692	12	204 60
Do	25th street	27	9	327 56
Do	do	27	of 8	133 28
St. Aloysius Relief Society	K street	675	225	557 38
Trustees Met. S. Bap. Asso	6th street	840	10	160 90
St. Mary's Academy	do	869	12	57 32
Do	do	869	13	114 64
Do	do	869	14	115 81
Church	do	487	of 6	85 14
Do	do	489	3	460 62
Do	do	489	of 4	141 92
Do	do	448	s. 55, 56, 57	285 69
Church and School	do	479	s. 19, 20	275 26
Chapel of Holy Communion	22d street	58	1	217 93
German Lutheran Church	do	80	9	442 10
St. Thomas Literary Society	F street	466	1, 2, 3, 4	621 06
Church	5th street	518	of 5	620 60

* Now police court.

340 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX 6.—Statement of assessments for special improvements, &c.—(Continued.)

To whom assessed.	Street.	Square.	Lot.	Amount.
St. John's Church	Potomac street	61	120	\$533 12
Church	Congress street	38	of 7	510 64
Do	do	62	of 32	428 95
Do	do	73	51	505 89
St. Ann's Infant Asylum	New Hampshire ave.	39	1, 2	806 63
St. John's Parish	Virginia avenue	58	1	208 71
Columbia College	do	83	5	281 98
St. Vincent Orphan Asylum	do	E. of 87	9	209 38
Lincoln Chapel	D street	985	1, 2	63 64
S. A. F. Society	Jefferson street	21	of 62	37 82
English Legation	N street	138	2	687 95
Do	do	138	1	853 04
St. Vincent Asylum	M street	197	of 20	94 25
Bethel Church	do	197	s. 15, 16, 17, of 20	465 66
St. Joseph Orphan Asylum	K street	622		1, 115 47
Gonzaga College	do	622		2, 359 46
C. M. Carlisle	15th street	196	16	329 99
Church	do	197	A, B, C, D, F	615 96
Hospital for foundlings	do	207	24 to 30	476 87
Church	do	207	23	786 49
Do	10th street	336	s. 24 and 25	186 68
Washington City Orphan Asylum	Myrtle street	675	s. 142 to 146	76 65
St. Aloysius Relief Society	do	675	222	95 79
St. Mary's Prot. E. Church, vestry	Sampson street	194	38	238 10
Chapel	10th street	387	22	199 34
Washington City Orphan Asylum	North Carolina ave	791	C, B, E, F	104 88
Church	do	922	2	40 33
Washington City Orphan Asylum	14th street	259	4	196 66
Wesley Chapel	5th street	488	of 10 & 11	112 39
First Colored Baptist Church	Monroe street	67	67	20 99
St. Vincent Orphan Asylum	D street	733	6, 4, 2	366 18
Georgetown College	do	763	3, 2	227 58
Providence Hospital	do	764	8, 9, 10	821 46
District of Columbia school	do	792	of 5	113 57
East Washington Methodist Episcopal Church	do	820	4	119 24
Church	Washington street	518	of 5	27 76
Presbyterian Church	8th street	891	s. 38	32 96
Capitol Hill Church	B street	789	5, 2	306 67
Providence Hospital	E street	764	5 to 2	420 22
Gonzaga College	C street	756	4, 3	993 52
Vestry St. James Parish	Maryland avenue	915	1 to 5	324 77
Church	3rd street	785	7, 6	380 56
St. Mark's Church	do	788	10	253 77
Vestry Memorial Parish	do	788	11, 9	364 88
Church	do	789	5	474 74
Ebenezer Church	4th street, east	822	8	232 53
Do	do	822	7	122 38
Columbia College	E street	83	5	85 93
Colored School	9th street	412	13	131 81
Union Chapel	8th street	891	37, 36	65 92
Presbyterian Church	do	891	35, 34	65 92
Church	do	847	3	66 04
St. Ann's Infant Asylum	Virginia avenue	39	2, 3	776 25
Vestry Memorial Church	A street	788	11	116 96
Gonzaga College	I street	622	s. 36	1, 117 55
Do	do	622	s. 35	2, 152 34
African Methodist Episcopal Church	B street	576	of 1	287 68
Church	R street	110	s. 7	146 37
Colored Catholic Benovolent Society	L street	183	of 5	138 48
Church	do	197	3	148 61
Galbraith Church	do	515	of 21	202 66
Church	do	525	of 2	171 82
Episcopal Church	West st., Georgetown	87	of 198	127 55
Orphan Asylum	do	99	228	268 55
Church	do	100	136	608 71
St. Paul's Church	23d street	54	of 6 & of 7	309 15
Church	20th street	101	29, 28	449 91
German Lutheran Church	do	121	5	494 52
Church	23d street	51	5	228 49
Woodstock College	14th street	209	of s. 34	4 79
Public School	do	209	of s. 30	34 25
Church	11th street	319	11	279 95
Female Orphan Asylum	do	346	7 & of 6	333 13
St. Vincent Orphan Asylum	10th street	346	11, 10	255 82
Church	K street	402	2, 3	391 99
Do	Gay st., Georgetown	62	32	293 27
Do	18th street	N. of 137	All	356 29
Church of Immaculate Conception	8th street	423	3, 4	838 32
Colored Baptist Church	do	429	8	450 20

APPENDIX 6.—Statement of assessments for special improvements, &c.—Continued.

To whom assessed.	Street.	Square.	Lot.	Amount.
Church	E street	531	2, 3	\$381 38
Do	19th street	118	12, 11	380 57
Congregational Church	10th street	375	12 to 18	422 66
St. Joseph's Orphan Asylum	do	375	25	273 98
St. Patrick's Roman Catholic Church	do	376	8 to 12	661 21
British Legation	Connecticut avenue	138	of 1	4 26
Church	3rd street	S. of 572	of 2	440 48
St. John's Church	2d st., Georgetown	61	120, 121, 14	432 00
St. Thomas Literary Society	6th street	466	1, 22, 23, 24	1, 361 71
			25, 26	
Church	do	492	of 6	186 27
Do	9th street	365	s. 1, 72, 73	155 15
Do	do	395	28, 29, 30	148 58
Fletcher Chapel	New York avenue	514	of 1	257 08
Church of the Ascension	Massachusetts avenue	282	1, 2, 3	924 85
Shiloh Baptist Church	do	371	of 3	395 07
Louise Home	do	196	All	3, 155 98
Total				54, 550 54

APPENDIX X 21.

TABLE O.

SPECIAL ASSESSMENT DIVISION.

APPENDIX 7.—Statement of drawback certificates received for account of sinking fund by this division, in accordance with orders of Commissioners of the District of Columbia, dated April 17, 1880, and July 1, 1880, and transmitted to auditor District of Columbia under order of Commissioners District of Columbia, dated March 8, 1881.

Date.	From whom received.	Amount.	Date.	From whom received.	Amount.
1880.			1880.		
July 29	George W. Beall	\$95, 015 83	Aug. 24	Collector of taxes	\$33 21
July 1	Collector of taxes	49 50	25	do	388 75
2	do	1, 743 48	26	do	156 67
3	do	874 42	27	do	85 50
6	do	226 66	28	do	9 08
7	do	667 43	30	do	594 72
8	do	66 44	31	do	162 63
10	do	517 07	Sept. 1	do	553 88
12	do	2, 272 96	2	do	251 66
13	do	670 98	3	do	318 51
14	do	369 48	4	do	854 06
15	do	239 58	6	do	669 06
17	do	32 56	8	do	27 25
19	do	34 52	9	do	323 01
21	do	415 54	10	do	1, 287 85
22	do	21 96	11	do	726 81
23	do	178 06	13	do	162 03
24	do	1, 353 45	14	do	463 76
26	do	77 17	15	do	1, 177 66
27	do	82 42	16	do	65 18
29	do	287 37	17	do	26 01
Aug. 2	do	262 40	18	do	780 84
3	do	88 13	20	do	337 17
4	do	100 61	21	do	1, 258 00
5	do	463 12	22	do	2, 748 86
6	do	159 91	23	do	66 79
7	do	52 28	24	do	1, 443 94
9	do	5 29	25	do	682 29
10	do	1, 031 09	27	do	852 63
11	do	664 98	28	do	336 07
12	do	46 81	29	do	183 59
13	do	674 19	30	do	880 60
14	do	631 61	Oct. 1	do	276 76
16	do	140 70	2	do	245 74
17	do	96 39	4	do	62 89
18	do	326 65	6	do	362 34
19	do	630 79	7	do	732 20
20	do	685 18	8	do	1, 658 86
21	do	1, 222 68	9	do	148 98
23	do	488 26	11	do	417 05

342 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX 7.—Statement of drawback certificates received, &c.—Continued.

Date.	From whom received.	Amount.	Date.	From whom received.	Amount.
1880.			1881.		
Oct. 12	Collector of taxes.....	\$81 44	Jan. 19	Collector of taxes.....	\$30 59
13	do.....	145 69	21	do.....	165 15
14	do.....	534 73	22	do.....	123 59
15	do.....	232 81	24	do.....	3 47
16	do.....	402 62	25	do.....	39 29
18	do.....	25 27	27	do.....	22 37
19	do.....	304 08	28	do.....	100 35
20	do.....	520 79	29	do.....	24 03
21	do.....	388 44	Feb. 1	do.....	206 05
22	do.....	259 49	2	do.....	105 95
23	do.....	366 22	3	do.....	20 98
25	do.....	1,067 15	4	do.....	31 24
26	do.....	214 29	5	do.....	174 60
27	do.....	146 65	8	do.....	142 69
28	do.....	109 23	9	do.....	1 77
29	do.....	74 83	10	do.....	7 23
30	do.....	353 57	11	do.....	7 44
Nov. 1	do.....	1,533 08	12	do.....	4 97
2	do.....	290 18	14	do.....	32 65
3	do.....	70 92	15	do.....	87 02
4	do.....	577 31	18	do.....	121 94
5	do.....	487 92	19	do.....	198 67
6	do.....	194 07	21	do.....	97 08
8	do.....	400 44	23	do.....	5 56
9	do.....	290 52	25	do.....	763 10
10	do.....	265 45	26	do.....	94 71
11	do.....	933 46	28	do.....	253 23
12	do.....	468 43	Mar. 1	do.....	135 81
13	do.....	1,319 62	2	do.....	51 57
15	do.....	25 92	3	do.....	202 43
16	do.....	307 71	5	do.....	137 95
17	do.....	1,388 22	8	do.....	71 59
18	do.....	70 16	9	do.....	441 88
19	do.....	43 56	10	do.....	164 53
20	do.....	228 47	11	do.....	343 49
22	do.....	570 63	12	do.....	220 86
23	do.....	534 02	14	do.....	302 07
24	do.....	380 09	15	do.....	75 65
26	do.....	170 36	16	do.....	59 34
27	do.....	174 01	17	do.....	46 46
29	do.....	290 92	18	do.....	101 13
30	do.....	113 47	19	do.....	293 49
Dec. 1	do.....	159 96	21	do.....	624 88
2	do.....	2,187 63	22	do.....	420 62
3	do.....	1,350 30	23	do.....	57 57
4	do.....	541 04	24	do.....	34 08
6	do.....	561 32	25	do.....	764 55
7	do.....	233 26	26	do.....	95
8	do.....	265 32	28	do.....	531 16
9	do.....	756 74	29	do.....	86 10
10	do.....	527 93	30	do.....	90 01
11	do.....	331 06	31	do.....	97 43
13	do.....	813 94	April 1	do.....	622 78
14	do.....	778 30	2	do.....	115 90
15	do.....	2,406 70	4	do.....	135 36
16	do.....	1,136 81	5	do.....	30 72
17	do.....	887 89	6	do.....	156 97
18	do.....	698 76	7	do.....	146 82
20	do.....	3,523 76	8	do.....	301 55
21	do.....	614 75	9	do.....	69 78
22	do.....	1,783 51	11	do.....	127 17
23	do.....	2,212 06	12	do.....	667 45
24	do.....	716 86	13	do.....	148 79
27	do.....	4,371 71	14	do.....	332 67
28	do.....	3,492 13	15	do.....	77
29	do.....	259 41	15	do.....	172 65
30	do.....	2,531 87	16	do.....	509 16
31	do.....	3,968 32	18	do.....	68 86
31	do.....	17,868 44	19	do.....	313 77
1881.			20	do.....	68 67
Jan. 4	do.....	216 55	21	do.....	108 01
7	do.....	48 76	22	do.....	515 10
10	do.....	68 97	23	do.....	89 12
11	do.....	371 18	25	do.....	163 99
12	do.....	118 66	26	do.....	166 87
14	do.....	111 67	27	do.....	855 78
15	do.....	337 30	28	do.....	211 20
17	do.....	53 03	29	do.....	37 35
18	do.....	87 68	30	do.....	163 94

APPENDIX 7.—Statement of drawback certificates received, &c.—Continued.

Date.	From whom received.	Amount.	Date.	From whom received.	Amount.
1881.			1881.		
May 2	Collector of taxes	\$36 68	July 11	Collector of taxes	\$50 24
3	do	18 58	14	do	152 86
4	do	596 47	15	do	184 62
5	do	81 38	16	do	185 01
6	do	349 72	18	do	851 61
7	do	460 88	19	do	99 88
9	do	129 20	20	do	37 38
10	do	62 68	21	do	472 35
11	do	8 12	22	do	574 14
12	do	42 25	23	do	175 93
14	do	119 45	26	do	634 03
16	do	261 87	27	do	39 38
17	do	102 21	29	do	99 16
18	do	331 92	30	do	1 37
19	do	39 78	Aug. 1	do	36 28
21	do	38 10	2	do	6 30
23	do	106 83	3	do	64 42
24	do	605 12	4	do	6 66
25	do	289 49	6	do	3 33
26	do	242 34	17	do	95 26
27	do	430 31	25	do	101 68
28	do	158 63	26	do	340 88
31	do	312 64	27	do	428 43
June 1	do	189 21	29	do	269 77
2	do	113 08	31	do	239 41
3	do	268 73	Sept. 1	do	119 70
4	do	120 86	2	do	16 68
6	do	151 06	3	do	19 15
9	do	329 53	5	do	177 79
13	do	87 62	7	do	79 56
14	do	15 62	8	do	626 30
15	do	180 29	10	do	9 18
16	do	1101 91	12	do	372 73
17	do	163 13	13	do	673 80
18	do	196 96	14	do	88 15
20	do	2 75	15	do	105 02
21	do	37 35	16	do	280 31
23	do	788 99	19	do	64 96
24	do	87 48	20	do	44 95
25	do	257 98	24	do	368 53
27	do	385 65	27	do	87 93
28	do	27 57	28	do	206 29
29	do	2073 23	29	do	61 39
30	do	1634 71	30	do	15 76
July 1	do	8 51	Oct. 3	do	73 31
2	do	295 23	4	do	113 09
5	do	27 62	7	do	5 42
6	do	212 61			
7	do	186 75			
9	do	149 79			
					\$244,732 41

The above statement is a correct transcript from the cash-book and ledger under my charge.

ROGER WILLIAMS,
Bookkeeper, Special Assessment Division.

APPENDIX X 22.

TABLE P.

SPECIAL ASSESSMENT DIVISION.

APPENDIX No. 8.—Statement of collections now awaiting demand of owners of lien certificates issued by the board of public works, and not held by the commissioner of the sinking fund.

No. of lien.	Street.	Square.	Lot.	Assessed to.	Amount of cer- tificate.	Principal.	Interest.	Total.
43 Co.	7th st. road.			Marshall Brown	\$2, 690 45	\$671 51	\$508 29	\$1, 179 80
488	7th street.	433	6	H. R. Randall	1, 025 63	454 70	358 31	813 01
500	do	435	39	B. L., and W. B. Jackson.	209 88	56 23	51 04	107 27
572	do	465	65	J. L. Smith and L. A. Cook.	223 89	77 00	68 70	145 70
573	do	465	66	do	223 88	77 00	68 70	145 70
620	do	469	10	Charles J. Brewer	237 80	64 20	58 49	122 69
1258	F street.	169	M	Wm. P. Copeland	203 53	68 41	58 83	127 24
2776	H street.	344	of 3	W. H. Jones	163 10	124 62	97 69	222 31
2818	8th street.	431	of 6	R. R. Pywell	151 53	151 53	119 34	270 87
2976	10th street.	340	31	John M. Simms	92 08	68 46	44 54	113 00
3157	14th street.	207	79	Wm. Henderson	165 87	126 43	97 56	223 99
					5, 387 64	1, 940 09	1, 531 49	3, 471 58

The above statement is a correct transcript from the cash-book and ledger under my charge.
ROGER WILLIAMS.
Bookkeeper, Special Assessment Division.

OCTOBER 10, 1881.

APPENDIX X 23.

TABLE Q.

SPECIAL ASSESSMENT DIVISION.

APPENDIX 9.—Statement of payments made by this division on account of lien certificates issued by board of public works, and not held by the commissioner of the sinking fund.

No. of lien certi- cate.	Principal.	Interest.	Total.	Date of pay- ment.	To whom paid.
958	\$523 37		\$523 37	Aug. 20, 1880	William H. Phillip.
476	23 40	\$16 20	39 60	Sept. 4, 1880	Lewis Johnson & Co.
963	1, 038 67	757 36	1, 796 03	do	Do.
2178	116 22	83 58	199 80	do	Do.
2130	79 17	54 67	133 84	do	Do.
2129	137 41	94 89	232 30	do	Do.
2096	58 76	42 03	100 79	do	Do.
2095	115 86	82 87	198 73	do	Do.
2079	122 04	87 63	209 67	do	Do.
2051	92 69	68 00	160 69	do	Do.
2050	77 57	56 91	134 48	do	Do.
2033	615 35	459 97	1, 075 32	do	Do.
2029	142 15	57 97	200 12	do	Do.
2012	331 56	239 46	571 02	do	Do.
2008	105 15	72 76	177 91	do	Do.
1988	178 05	120 68	298 73	do	Do.
1990	95 12	64 05	159 17	do	Do.
1985	91 72	66 98	158 70	do	Do.
1981	157 08	114 72	271 80	do	Do.
1993	121 25	88 55	209 80	do	Do.
1986	158 88	116 04	274 92	do	Do.

APPENDIX 9.—*Payments made by this division on account of lien certificates, &c.—Cont'd.*

No. of lien certificate.	Principal.	Interest.	Total.	Date of payment.	To whom paid.
1974.....	\$308 02	\$206 54	\$514 56	Sept. 4, 1880	Lewis Johnson & Co
1069.....	175 48	119 42	294 90	do	Do.
1073.....	105 46	71 77	177 23	do	Do.
1072.....	178 12	121 22	299 34	do	Do.
1075.....	40 49	27 55	68 04	do	Do.
973.....	385 14	268 85	653 99	do	Do.
244.....	106 71	83 71	190 42	do	Do.
3340.....	20 63	13 32	33 95	do	Do.
1964.....	107 06	72 14	179 20	do	Do.
160.....	145 08	99 74	244 82	do	Do.
161.....	139 05	95 60	234 65	do	Do.
173.....	364 02	257 95	621 97	do	Do.
310.....	233 25	168 19	401 44	do	Do.
113.....	6 74	4 90	11 64	do	Do.
65.....	77 64	61 98	139 62	do	Do.
1421.....	435 66	304 61	740 27	Sept. 10, 1880	Do.
1435.....	726 10	506 86	1,232 96	Sept. 17, 1880	Do.
1436.....	726 10	506 86	1,232 96	do	Do.
1423.....	726 11	506 86	1,232 97	do	Do.
1420.....	726 11	506 86	1,232 97	do	Do.
1234.....	816 10	574 90	1,391 00	Sept. 4, 1880	Do.
1317.....	288 00	198 24	486 24	do	Do.
1241.....	235 44	160 49	395 93	do	Do.
1272.....	314 84	217 76	532 60	do	Do.
1319.....	288 00	198 24	486 24	do	Do.
1318.....	288 00	198 24	486 24	do	Do.
1316.....	351 36	241 84	593 20	do	Do.
23.....	99 23	63 81	163 04	do	Do.
21.....	99 24	63 81	163 05	do	Do.
22.....	99 23	63 81	163 04	do	Do.
11.....	132 99	86 26	219 25	do	Do.
3341.....	143 52	92 65	236 17	do	Do.
2303.....	109 80	77 01	186 81	do	Do.
2304.....	118 00	82 76	200 76	do	Do.
264.....	177 92	136 10	314 02	do	Do.
1167.....	69 58	53 48	123 06	do	Do.
1168.....	44 93	34 62	79 55	do	Do.
1170.....	154 66	118 86	273 52	do	Do.
487.....	274 48	216 20	490 68	do	Do.
1074.....	33 77	22 98	56 75	do	Do.
1181.....	112 39	76 89	189 28	do	Do.
1173.....	71 91	49 72	121 63	do	Do.
1242.....	164 33	113 66	277 99	do	Do.
1175.....	233 19	161 23	394 42	do	Do.
1230.....	818 74	639 30	1,458 04	do	Do.
1225.....	528 51	204 31	732 82	do	Do.
1265.....	132 54	91 37	223 91	do	Do.
1266.....	132 54	91 37	223 91	do	Do.
1267.....	132 54	91 37	223 91	do	Do.
1271.....	272 63	187 96	460 59	do	Do.
291.....	84 69	68 86	153 55	do	Do.
1996.....	79 34	52 56	131 90	do	Do.
555.....	140 94	102 96	243 90	do	Do.
558.....	212 77	155 44	368 21	do	Do.
546.....	212 77	155 44	368 21	do	Do.
557.....	12 23	8 94	21 17	do	Do.
1052.....	72 71	30 16	102 87	do	Do.
1991.....	59 11	42 85	101 96	do	Do.
611.....	28 02	19 93	47 95	do	Do.
587.....	123 21	39 90	163 11	do	Do.
501.....	92 55	64 96	157 51	do	Do.
539.....	164 60	120 34	284 94	do	Do.
540.....	126 25	92 30	218 55	do	Do.
549.....	92 51	65 79	158 30	do	Do.
548.....	187 69	133 52	321 21	do	Do.
542.....	42 88	30 38	73 26	do	Do.
547.....	413 39	294 67	708 06	do	Do.
590.....	76 57	53 66	130 23	do	Do.
850.....	409 84	297 03	706 87	do	Do.
894.....	181 93	133 06	314 99	do	Do.
2295.....	477 04	336 84	813 88	do	Do.
609.....	52 67	38 70	91 37	do	Do.
960.....	461 36	337 82	799 18	do	Do.
1992.....	62 17	44 81	106 98	do	Do.
502.....	92 55	65 02	157 57	do	Do.
521.....	35 28	25 47	60 75	do	Do.
870.....	159 04	108 24	267 28	do	Do.
649.....	80 33	58 44	138 77	do	Do.
635.....	157 29	110 37	267 66	do	Do.
691.....	223 11	156 91	380 02	do	Do.

346 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX 9.—Payments made by this division on account of lien certificates. &c.—Cont'd.

No. of lien certificates.	Principal.	Interest.	Total.	Date of payment.	To whom paid.
621.....	\$64 20	\$46 78	\$110 98	Sept. 4, 1880	Lewis Johnson & Co.
622.....	38 45	28 02	66 47	do	Do.
624.....	31 62	24 44	56 06	do	Do.
625.....	21 91	16 94	38 85	do	Do.
1273.....	421 58	291 59	713 17	do	Do.
637.....	157 39	110 37	267 67	do	Do.
636.....	138 10	96 90	235 00	do	Do.
34.....	39 26	.....	39 26	do	Do.
1239.....	404 19	.....	404 19	do	Do.
1240.....	304 75	.....	304 75	do	Do.
1149.....	190 88	78 36	269 24	Sept. 22, 1880	Do.
1150.....	183 75	75 44	259 19	do	Do.
1151.....	119 22	48 94	168 16	do	Do.
2632.....	197 61	131 46	329 07	do	Do.
1113.....	35 92	26 93	62 85	do	Do.
1126.....	55 85	41 88	97 73	do	Do.
630.....	10 44	8 11	18 55	do	Do.
631.....	30 21	23 48	53 69	do	Do.
2064.....	100 69	71 52	172 21	do	Do.
197.....	177 90	134 22	312 12	do	Do.
276.....	176 21	132 94	309 15	do	Do.
1154.....	92 32	71 93	164 25	do	Do.
851.....	403 91	317 52	721 43	do	Do.
2114.....	190 18	147 76	337 94	do	Do.
1989.....	127 35	98 84	226 19	do	Do.
541.....	56 84	45 74	102 58	do	Do.
2511.....	101 17	62 69	163 86	Sept. 25, 1880	Do.
2512.....	101 17	62 69	163 86	do	Do.
2513.....	82 02	50 83	132 85	do	Do.
2510.....	101 17	62 69	163 86	do	Do.
1922.....	135 56	76 75	212 31	Oct. 6, 1880	Do.
1922.....	135 56	93 84	229 40	do	Do.
227.....	208 25	160 59	368 84	Oct. 9, 1880	Do.
1452.....	128 86	94 50	223 36	do	Do.
3172.....	149 44	108 43	257 87	do	Do.
517.....	102 39	83 25	185 64	Oct. 28, 1880	Do.
2123.....	167 24	130 77	298 01	do	Do.
2113.....	78 00	61 12	139 12	do	Do.
531.....	52 05	42 52	94 57	do	Do.
3042.....	216 67	139 69	356 36	Nov. 3, 1880	National Metropolitan Bank.
767.....	106 30	85 75	192 05	Nov. 6, 1880	Lewis Johnson & Co.
768.....	106 30	85 76	192 06	do	Do.
769.....	106 30	85 75	192 05	do	Do.
770.....	106 30	85 77	192 07	do	Do.
1184.....	154 09	122 33	276 42	Nov. 8, 1880	Do.
2112.....	83 61	.....	83 61	do	George C. Reiser.
112.....	12 80	9 69	22 49	Nov. 10, 1880	Lewis Johnson & Co.
633.....	64 20	48 69	112 89	do	Do.
632.....	33 98	25 77	59 75	do	Do.
3111.....	79 63	8 10	87 73	Nov. 11, 1880	National Metropolitan Bank.
709.....	137 61	112 76	250 37	Nov. 13, 1880	Lewis Johnson & Co.
708.....	13 54	11 10	24 64	do	Do.
2023.....	178 07	141 07	319 14	Nov. 18, 1880	Do.
2024.....	136 62	108 24	244 86	do	Do.
650.....	92 00	75 93	167 93	Nov. 23, 1880	Do.
651.....	111 20	91 77	202 97	do	Do.
652.....	92 00	75 93	167 93	do	Do.
1492.....	174 27	.....	174 27	Nov. 29, 1880	Peter Campbell.
1493.....	159 74	.....	159 74	do	Do.
1494.....	159 74	.....	159 74	do	Do.
1495.....	159 74	.....	159 74	do	Do.
1496.....	159 74	.....	159 74	do	Do.
1497.....	159 74	.....	159 74	do	Do.
1498.....	159 74	.....	159 74	do	Do.
1499.....	159 74	.....	159 74	do	Do.
1500.....	159 74	.....	159 74	do	Do.
2191.....	86 38	67 66	154 04	Dec. 4, 1880	Lewis Johnson & Co.
2028.....	161 12	.....	161 12	do	S. J. Block.
2044.....	290 81	.....	290 81	Dec. 7, 1880	Thomas E. Waggaman.
2060.....	123 92	.....	123 92	do	Do.
1190.....	57 36	45 96	103 32	Dec. 10, 1880	Lewis Johnson & Co.
1189.....	75 06	60 28	135 34	do	Do.
496.....	205 03	170 29	375 32	do	Do.
1245.....	98 93	80 16	179 09	Dec. 23, 1880	Do.
990.....	181 56	147 77	329 33	Dec. 29, 1880	Do.
1174.....	104 79	84 56	189 35	do	Do.
1292.....	199 11	161 78	360 89	do	Do.
1381.....	396 34	321 37	717 71	do	Do.
1969.....	97 59	.....	97 59	Jan. 18, 1881	F. Lambrecht.
899.....	116 00	94 60	210 60	Jan. 25, 1881	Lewis Johnson & Co.
2624.....	19 64	15 58	35 22	do	Do.

APPENDIX 9.—Payments made by this division on account of lien certificates, &c.—Cont'd.

No. of lien certificate.	Principal.	Interest.	Total.	Date of payment	To whom paid.
1764.....	\$25 47	\$20 72	\$46 19	Jan. 25, 1881	Lewis Johnson & Co.
1216.....	161 41	131 46	292 87	Feb. 17, 1881	Do.
588.....	81 32	68 01	149 33	do	Do.
2055.....	151 33		151 33	Feb. 19, 1881	S. J. Block.
3435.....	31 72		31 72	Feb. 21, 1881	D. T. Cissell.
835.....	82 33	67 44	149 77	Feb. 23, 1881	Lewis Johnson & Co.
1255.....	64 07	52 34	116 41	do	Do.
190.....	468 55	328 12	796 67	Feb. 24, 1881	Do.
655.....	1,571 17	1,118 15	2,689 32	do	Do.
3284.....	669 57		669 57	Mar. 2, 1881	Andrew Wylie.
2995.....	90 58		90 58	do	W. F. Mattingly, receiver.
2784.....	187 80		187 80	Feb. 15, 1881	Henry Clay Stewart.
2538.....	567 62		567 62	do	Do.
2785.....	147 46		147 46	Feb. 21, 1881	Do.
2597.....	43 70	29 82	73 52	Mar. 16, 1881	Lewis Johnson & Co.
2090.....	262 74		262 74	Feb. 26, 1881	William Buckley.
2091.....	295 19		295 19	do	Do.
2092.....	50 02		50 02	do	Do.
1291.....	80 10	66 39	146 49	Mar. 18, 1881	Lewis Johnson & Co.
1290.....	2 71	2 25	4 96	do	Do.
1296.....	67 66	56 08	123 74	do	Do.
1295.....	81 70	67 72	149 42	do	Do.
1294.....	81 70	67 72	149 42	do	Do.
1279.....	349 43	289 63	639 06	do	Do.
1278.....	53 41	44 27	97 68	do	Do.
1170.....	147 01	59 00	206 01	do	Do.
2115.....	251 70	171 09	422 79	Mar. 24, 1881	Do.
881.....	1,102 76		1,102 76	Mar. 26, 1881	John F. Cox.
104 Co.....	24 25	19 28	43 53	Mar. 29, 1881	Lewis Johnson & Co.
2077.....	101 07		101 07	Mar. 30, 1881	Samuel Norment.
2078.....	157 83		157 83	do	Do.
921.....	204 83		204 83	Apr. 12, 1881	Jas. S. Edwards & C. C. Cole, trustees.
2070.....	8 04		8 04	Apr. 16, 1881	P. G. Sauer.
2071.....	76 29		76 29	do	Do.
2422.....	15 25	12 42	27 67	Apr. 22, 1881	Lewis Johnson & Co.
2418.....	19 05	15 51	34 56	do	Do.
1253.....	52 81	44 49	97 30	do	Do.
1254.....	319 76	269 39	589 15	do	Do.
188.....	214 10	182 94	397 04	do	Do.
1905.....	208 92		208 92	do	Wm. Dickson.
2258.....	126 64		126 64	do	Do.
2222.....	295 22		295 22	Apr. 23, 1881	Do.
1759.....	248 57		248 57	May 3, 1881	C. F. Wollard.
1930.....	158 87		158 87	May 5, 1881	Jas. R. Riley & H. S. Johnston.
570.....	112 85	98 24	211 09	May 23, 1881	Lewis Johnson & Co.
1061.....	71 66	60 95	132 61	do	Do.
237.....	103 52	78 95	182 47	do	Do.
1931.....	183 43		183 43	May 24, 1881	Jas. R. Riley & G. M. Pilcher.
2849.....	91 42		91 42	May 26, 1881	Lewis J. Davis.
1963.....	109 42	64 83	174 25	June 3, 1881	J. S. Edwards.
776.....	38 42	33 25	71 67	June 9, 1881	Young & Caldwell.
1438.....	399 36	272 90	672 26	June 11, 1881	Lewis Johnson & Co.
1439.....	399 36	273 12	672 48	do	Do.
1744.....	148 85	102 25	251 10	do	Do.
1959.....	112 83	85 50	198 33	do	Do.
2689.....	128 13	88 84	216 97	do	Do.
3166.....	150 62	86 61	237 23	do	Do.
3167.....	150 63	86 61	237 24	do	Do.
2684.....	177 85	94 21	272 06	June 16, 1881	Do.
1950.....	8 05	5 47	13 52	do	Do.
1815.....	98 05	62 42	160 47	do	Do.
1608.....	101 41	52 29	153 70	do	Do.
1609.....	47 20	29 64	76 84	do	Do.
1730.....	153 59	88 85	242 44	do	Do.
1563.....	136 80	93 56	230 36	do	Do.
1488.....	633 67	542 67	1,176 34	do	Do.
1635.....	300 92	33 10	334 02	do	Do.
1725.....	90 65	42 75	133 40	do	Do.
1634.....	300 92	33 10	334 02	do	Do.
1633.....	264 78	29 13	293 91	do	Do.
1440.....	453 83	324 49	778 32	do	Do.
2045.....	102 48	86 52	189 00	June 21, 1881	C. F. Baker, First National Bank, New York, by transmittal to Commissioners District Columbia. (See letter this date.)

348 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

APPENDIX 9.—Payments made by this division on account of lien certificates, &c.—Cont'd.

No. of lien certificate.	Principal.	Interest.	Total.	Date of payment.	To whom paid.
230.....	\$174 69	\$56 35	\$131 04	June 28, 1881	Lewis Johnson & Co.
229.....	108 77	82 06	190 83	do	Do.
91 Co.....	108 92	72 15	181 07	do	Do.
93 Co.....	209 08	138 10	347 18	do	Do.
82 Co.....	135 23	103 74	238 97	do	Do.
81 Co.....	683 86	477 37	1,161 23	do	Do.
11 Co.....	4 91	3 23	8 14	do	Do.
16 Co.....	19 65	12 82	32 47	do	Do.
57 Co.....	31 92	23 04	54 96	do	Do.
79 Co.....	70 08	45 26	115 34	do	Do.
18 Co.....	9 10	6 91	16 01	do	Do.
24 Co.....	7 28	5 92	13 20	do	Do.
29 Co.....	6 06	4 24	10 30	do	Do.
42 Co.....	24 25	16 62	40 87	do	Do.
46 Co.....	18 19	12 81	31 00	do	Do.
40 Co.....	6 08	4 03	10 11	do	Do.
1575.....	95 53	7 55	103 08	do	Do.
1576.....	166 10	13 12	179 22	do	Do.
1577.....	95 53	7 55	103 08	do	Do.
1557.....	283 95	33 13	317 08	do	Do.
1525.....	282 73	32 98	315 71	do	Do.
1437.....	453 82	310 11	763 93	do	Do.
1422.....	435 66	311 50	747 16	do	Do.
2177.....	214 88	85 95	300 83	do	Do.
554.....	75 52	66 64	142 16	do	Do.
553.....	27 20	24 00	51 20	do	Do.
105 Co.....	12 13	9 95	22 08	July 7, 1881	Do.
2183.....	115 95	77 23	193 18	do	Do.
3085.....	333 35	224 64	557 99	July 8, 1881	G. H. B. White, Cashier.
3038.....	66 67	43 74	110 41	do	Do.
3041.....	142 50	93 38	235 88	do	Do.
3281.....	139 47	90 31	229 78	July 12, 1881	Lewis Johnson & Co.
3279.....	139 47	90 31	229 78	do	Do.
3272.....	132 83	87 52	220 35	do	Do.
3280.....	139 47	90 42	229 89	do	Do.
2795.....	324 64	215 43	540 07	do	Do.
2796.....	203 54	135 07	338 61	do	Do.
1944.....	201 42	144 07	345 49	do	Do.
1827.....	118 81	85 80	204 61	do	Do.
1847.....	58 93	42 09	101 02	do	Do.
1826.....	255 27	179 40	434 67	do	Do.
1947.....	88 71	35 33	124 04	do	Do.
1806.....	118 90	88 05	206 95	do	Do.
1767.....	93 85	64 93	158 78	do	Do.
1746.....	233 91	161 79	395 70	do	Do.
1727.....	129 65	.....	129 65	do	Do.
1724.....	199 00	136 92	335 92	do	Do.
1649.....	271 50	31 52	303 02	do	Do.
1745.....	214 91	148 65	363 56	do	Do.
1486.....	363 75	313 23	676 98	do	Do.
76 Co.....	296 42	243 55	539 97	do	Do.
85 Co.....	78 00	64 09	142 09	do	Do.
1487.....	392 43	337 92	730 35	do	Do.
1629.....	259 41	41 43	300 84	do	Do.
1630.....	259 41	41 43	300 84	do	Do.
3178.....	166 03	63 48	229 51	do	Do.
1696.....	105 87	72 58	178 45	do	Do.
1877.....	108 32	79 74	188 06	do	Do.
552.....	70 18	62 36	132 54	July 20, 1881	Do.
551.....	34 12	30 33	64 45	do	Do.
89.....	83 51	73 39	156 90	do	Do.
88.....	352 77	310 04	662 81	do	Do.
1215.....	154 23	133 75	287 98	do	Do.
1244.....	111 90	96 85	208 75	do	Do.
1264.....	154 57	133 79	288 36	Sept. 2, 1881	Do.
1962.....	134 34	.....	134 34	Aug. 6, 1881	S. J. Block.
3174.....	149 44	122 12	271 56	Sept. 6, 1881	Lewis Johnson & Co.
3153.....	126 43	102 23	228 66	do	Do.
3152.....	126 43	98 28	224 71	do	Do.
3133.....	132 83	105 19	238 02	do	Do.
3132.....	132 83	105 53	238 36	do	Do.
2688.....	194 54	129 42	323 96	do	Do.
1958.....	19 92	15 03	34 95	do	Do.
1948.....	92 82	74 13	166 95	do	Do.
1906.....	80 56	65 36	145 92	do	Do.
1750.....	91 64	72 06	163 70	do	Do.
1655.....	341 48	67 51	408 99	do	Do.
1579.....	251 15	45 56	296 71	do	Do.
1570.....	131 50	113 06	244 56	do	Do.
1516.....	153 47	105 30	258 77	do	Do.

APPENDIX 9.—Payments made by this division on account of lien certificates, &c.—Continued.

No. of lien certifi- cate.	Principal.	Interest.	Total.	Date of pay- ment.	To whom paid.
231.....	\$110 13	\$87 42	\$197 55	Sept. 6, 1881	Lewis Johnson & Co.
92 Co.....	108 17	83 41	191 58	Sept. 7, 1881.	Do.
83 Co.....	84 64	65 27	149 91	.. do	Do.
74 Co.....	30 94	23 09	54 03	.. do	Do.
59 Co.....	23 77	18 38	42 15	.. do	Do.
38 Co.....	218 23	172 58	390 81	.. do	Do.
14 Co.....	78 61	50 79	129 40	.. do	Do.
4 Co.....	4 91	3 99	8 90	.. do	Do.
433.....	102 44	77 23	179 67	Sept. 8, 1881	Do.
456.....	99 43	67 21	166 64	.. do	Do.
1587.....	33 70	25 71	59 41	.. do	Do.
1587.....	16 84	14 26	31 10	.. do	Do.
1639.....	58 52	38 76	97 28	.. do	Do.
1640.....	253 91	27 93	281 84	.. do	Do.
1662.....	3 11	1 14	4 25	.. do	Do.
1663.....	15 51	6 20	21 71	.. do	Do.
1667.....	23 45	15 06	38 51	.. do	Do.
3598.....	31 62	24 29	55 91	.. do	Do.
1726.....	311 95	172 00	483 95	.. do	Do.
2038.....	97 17	.....	97 17	Sept. 13, 1881	R. W. Rockett.
2039.....	113 62	.....	113 62	.. do	Do.
2131.....	123 93	.....	123 93	Sept. 14, 1881	S. J. Block.
1659.....	295 02	89 00	384 02	Sept. 15, 1881	Lewis Johnson & Co.
60 Co.....	32 62	24 16	56 78	.. do	Do.
90 Co.....	114 72	87 60	202 32	.. do	Do.
1657.....	177 01	53 99	231 00	Sept. 28, 1881	Do.
1485.....	363 75	321 21	684 96	.. do	Do.
1483.....	633 67	559 56	1,193 23	.. do	Do.
1484.....	392 43	346 54	738 97	.. do	Do.
44 Co.....	48 48	41 00	89 48	Sept. 29, 1881	Fitch, Fox & Brown.
1961.....	183 44	.....	183 44	Oct. 4, 1881	S. J. Block.
975.....	138 14	123 29	261 43	Oct. 10, 1881	Lewis Johnson & Co.
	63,608 74	36,537 78	100,146 52		

The above statement is a correct transcript from the cash-book and ledger under my charge.
ROGER WILLIAMS,
Bookkeeper, Special Assistant Division.

OCT. 10, 1881.

Y.—REPORT OF THE SUPERINTENDENT OF PROPERTY.

OFFICE OF SUPERINTENDENT PROPERTY, D. C.,
Washington, November 1, 1881.

SIR: I have the honor to transmit herewith the report of the Superintendent of Property, for the fiscal year ending June 30, 1881.

Very respectfully,

JOHN B. CLARK,
Superintendent of Property.

Maj. WM. J. TWINING,
United States Engineers, Commissioner D. C.

CLASS 1.—Stationery.

Total amount purchased, as per invoices and vouchers.....	\$9,678 62
Issued as follows to—	
Commissioners' department.....	916 87
Engineer department.....	983 36
Water registrar.....	454 64
Auditor and comptroller.....	265 71

350 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Treasurer and assessor.....	\$237 52
Collector's office.....	653 18
Attorney's office.....	79 83
Coroner's office.....	13 61
Public schools.....	4,086 51
Fire department.....	150 49
Police court.....	148 81
Washington Asylum.....	114 61
Metropolitan police.....	867 45
Health office.....	409 33
Fire-alarm telegraph.....	12 81
Special assessment division.....	40 98
Inspector of buildings.....	26 59
Liquor-license board.....	36 55
Register of wills.....	78 00
Markets.....	11 47
	9,678 62

CLASS 2.—Blank forms and printing.

Total amount purchased, as per invoices and vouchers.....	\$9,446 69
---	------------

Issued as follows to—

Commissioner's department.....	786 61
Engineer department.....	357 55
Water registrar.....	324 81
Auditor and comptroller.....	120 95
Treasurer and assessor.....	261 39
Special assessment division.....	88 00
Collector's office.....	2,806 96
Attorney's office.....	152 58
Liquor-license board.....	101 98
Inspector of buildings.....	31 48
Public schools.....	3,371 93
Fire department.....	14 75
Police court.....	70 25
Washington Asylum.....	97 35
Metropolitan police.....	676 50
Health office.....	100 24
Fire-alarm telegraph.....	4 50
Register of wills.....	1 88
Markets.....	
	9,446 69

CLASS 3.—School-books.

Total amount purchased, as per invoices and vouchers.....	\$4,618 21
---	------------

Issued as follows to—

Public schools.....	4,618 21
Health office.....	1 50
Metropolitan police.....	20
	4,618 21

CLASS 4.—Furniture.

Total amount purchased, as per invoices and vouchers.....	\$2,925 13
---	------------

Issued as follows to—

Commissioner's office.....	135 00
Engineer department.....	24 81
Water registrar.....	107 48
Auditor and comptroller.....	3 20
Treasurer and assessor.....	24 30
Collector's office.....	36 83
Public schools.....	1,124 17
Fire department.....	435 63
Police court.....	100 95
Washington Asylum.....	572 00
Metropolitan police.....	300 27
Health office.....	30 49
	2,925 13

CLASS 5.—*Hardware.*

Total amount purchased, as per invoices and vouchers..... \$5,031 79

Issued as follows to—

Commissioners' office.....	95 38
Engineer department.....	1,031 07
Water department.....	193 63
Public schools.....	1,041 92
Fire department.....	829 51
Police court.....	17 58
Washington Asylum.....	790 26
Metropolitan police department.....	393 33
Health department.....	25 35
Parking commission.....	557 05
Markets.....	56 71

5,031 79

CLASS 6.—*Stores, tinware, and heating apparatus.*

Total amount purchased, as per invoices and vouchers..... \$4,380 10

Issued as follows to—

Commissioners' office.....	279 78
Engineer department.....	1,333 71
Water department.....	20 00
Public schools.....	1,284 66
Fire department.....	560 80
Police court.....	67 32
Washington Asylum.....	549 32
Metropolitan police department.....	246 77
Health department.....	37 74

4,380 10

CLASS 7.—*Plumbers' supplies, iron pipe and castings.*

Total amount purchased, as per invoices and vouchers..... \$13,367 84

Issued as follows to—

Commissioners' office.....	2 52
Engineer department.....	178 83
Water department.....	12,046 73
Public schools.....	369 76
Fire department.....	529 08
Washington Asylum.....	219 17
Health department.....	3 25
Fire-alarm telegraph.....	18 50

13,367 84

CLASS 8.—*Groceries and provisions.*

Total amount purchased, as per invoices and vouchers..... \$9,250 45

Issued as follows to—

Commissioners' office.....	60 13
Engineer department.....	23 20
Water department.....	4 50
Auditor and comptroller.....	1 25
Attorney.....	1 25
Public schools.....	50 64
Fire department.....	113 49
Police court.....	3 00
Washington Asylum.....	7,861 93
Metropolitan police department.....	864 99
Health department.....	8 98
Industrial Home School.....	257 09

9,250 45

352 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

CLASS 9.—*Dry goods, clothing, and notions.*

Total amount purchased, as per invoices and vouchers..... \$3,014 56

Issued as follows to—

Commissioners' office	44 30
Treasurer and assessor	80
Public schools	55 05
Fire department	165 50
Washington Asylum	2,647 61
Metropolitan police	68 44
Health department	4 10
Conveyance of prisoners	2 40
Industrial Home School	26 36

3,014 56

CLASS 10.—*Boots and shoes.*

Total amount purchased, as per invoices and vouchers..... \$641 40

Issued as follows to—

Engineer department	87 00
Commissioners' office	2 00
Washington Asylum	552 40

641 40

CLASS 11.—*Saddlery.*

Total amount purchased, as per invoices and vouchers..... \$6,616 83

Issued as follows to—

Commissioners' office	76 85
Water department	209 02
Engineer department	142 60
Fire department	4,846 57
Metropolitan police	50 55
Washington Asylum	143 74
Treasurer and assessor	39 35
Parking commission	997 20
Health department	68 70
Conveyance of prisoners	19 05
Inspector of buildings	23 20

6,616 83

CLASS 12.—*Drugs and chemicals.*

Total amount purchased, as per invoices and vouchers..... \$3,795 39

Issued as follows to—

Commissioners' office	7 75
Engineer department	543 54
Water department	619 39
Auditor and comptroller	40
Parking commission	1 50
Public schools	7 99
Fire department	1,007 62
Police department	33 65
Washington Asylum	1,552 60
Health department	20 95

3,795 39

CLASS 13.—*Glass, paints, and varnish.*

Total amount purchased, as per invoices and vouchers..... \$733 44

Issued as follows to—

Commissioners' office	18 70
Engineer department	6 11
Water department	43 97

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 353

Public schools.....	\$226 08
Fire department.....	213 67
Washington Asylum.....	127 34
Metropolitan police department.....	11 85
Health department.....	2 39
Inspector of buildings.....	83 32
	733 43

CLASS 14.—*Lumber and building material.*

Total amount purchased, as per invoices and vouchers.....	\$8,466 74
---	------------------------

Issued as follows to—

Commissioners' office.....	85
Engineer department.....	2,341 27
Water department.....	298 40
Public schools.....	537 25
Fire department.....	298 79
Washington Asylum.....	895 40
Police department.....	26 73
Health department.....	2 76
Parking commission.....	3,938 39
Markets.....	126 90
	8,466 74

CLASS 15.—*Forage.*

Total amount purchased as per invoices and vouchers.....	\$9,619 32
--	------------------------

Issued as follows to—

Engineer department.....	605 29
Water department.....	419 68
Treasurer and assessor.....	116 66
Collector.....	35 10
Inspector of buildings.....	161 19
Parking commission.....	72 49
Police department.....	150 72
Fire department.....	4,559 38
Conveyance of prisoners.....	777 90
Washington Asylum.....	2,269 29
Health department.....	451 62
	9,619 32

CLASS 16.—*Fresh and salt meats.*

Total amount purchased, as per invoices and vouchers.....	\$4,579 81
---	------------------------

Issued as follows to—

Industrial Home School.....	13 31
Washington Asylum.....	4,566 50
	4,579 81

CLASS 17.—*Ice.*

Total amount purchased, as per invoices and vouchers.....	\$1,148 24
---	------------------------

Issued as follows to—

Commissioners' office.....	312 32
Engineer department.....	20 52
Attorney.....	9 10
Health department.....	34 80
Public schools.....	28 40
Fire department.....	304 92
Police court.....	53 42
Washington Asylum.....	142 48
Police department.....	239 28
	1,148 24

354 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

CLASS 15.—*Lamp-posts and miscellaneous castings.*

Total amount purchased, as per invoices and vouchers.....	\$2,299 59
---	------------

Issued as follows to—	
Engineer department.....	2,144 28
Water department.....	77 49
Public schools.....	77 82
	2,299 59

CLASS 19.—*Fuel.*

Total amount purchased, as per invoices and vouchers.....	\$24,745 58
---	-------------

Issued as follows to—	
Engineer department.....	59 15
Commissioners' office.....	139 27
Water department.....	7,121 55
Parking commission.....	12 60
Fire-alarm telegraph office.....	10 08
Attorney.....	43 44
District offices.....	386 00
Fire department.....	962 30
Police court.....	213 16
Police department.....	1,274 23
Washington Asylum.....	2,245 85
Markets.....	45 36
Health department.....	180 26
Public schools.....	12,052 33
	24,745 58

CLASS 20.—*Construction material.*

Amount on hand per last report, July 1, 1880.....	\$26,505 66
Amount purchased to June 30, 1881.....	115,323 83

Total to be accounted for.....	141,829 49
Issued to the engineer department.....	113,946 04
Balance remaining on hand.....	27,883 45

Total to be accounted for.....	141,829 49
--------------------------------	------------

CLASS 21.—*Miscellaneous supplies, expenses and repairs.*

Commissioner's department:	
For livery.....	\$413 00
For carpentering and repairs.....	249 29
For labor.....	382 00
For drayage.....	18 00
For gas fixtures.....	4 09
For plumbing.....	89 60
For whitewashing and polishing.....	53 25
For book binding.....	120 95
For repairs to vehicles.....	454 50
For rent of telephone instruments.....	80 50
For washing towels.....	213 64
For blacksmithing.....	54 63
For cleaning carpets.....	27 72
For papering.....	47 03
For pasturage.....	76 00
For one gray horse.....	200 00
For one bay horse.....	160 00
For putting up and repairing awnings.....	133 20
For rent of property yard.....	300 00
For gas governors.....	200 00
For veterinary services.....	70 82
For miscellaneous items.....	77 85
	\$3,226 07

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 355

Water registrar:

For photolithographing	\$160 00
For carpentering and repairs	22 81
For one set machinists' tools	54 00
For repairing machinery	65 00
For timber for pumps	187 20
For one bay mare	140 00
For binding books	71 00
For miscellaneous	26 50

\$726 51

Engineer:

For livery	482 48
For one bay horse	175 00
For one bateau	13 00
For veterinary services	12 35
For blacksmithing	209 41
For repairs to vehicles	72 75
For repairs to steam roller	65 03
For hire of wagon	82 20
For tents	55 00
For granite roller	50 00
For stone wheelbarrows	30 00
For iron road-rollers	225 00
For chains and castings for testing machine	131 44
For maps of Washington	20 00
For leveling-rod	18 00
For repairs to instruments	76 45
For rent of telephone instruments	80 60
For box of water-colors	13 50
For hire of carts hauling stone	15 81
For repairing hay-scales	10 00
For hauling, counting, and piling trap-rock blocks	134 93
For photolithographing	25 00
For miscellaneous items	88 34

2,086 29

Public schools:

For setting school furniture	325 75
For regulator	169 00
For hauling school furniture	115 75
For rent of telephone instruments	643 00
For gas fixtures	54 75
For furnishing and putting up air-clock	262 00
For pneumatic clocks	350 00
For grindstone	5 50
For repairing clock	4 75
For making umbrella rack	25 00
For bookbinding	14 25
For school-bells	120 00
For improving grounds	32 80
For miscellaneous	2 00

2,124 55

Fire department:

For repairs to apparatus	117 25
For veterinary services	229 02
For plumbing	43 30
For gas fixtures	87 32
For hauling ashes	17 80
For rent of telephone instruments	262 50
For swinging harness	420 00
For fire extinguishers and charges	97 50
For one bay horse	160 00
For dies for hose threads	38 00
For cleaning carpets	12 40
For repairing roof	15 00
For patent door bolts	35 00
For heaters and play pipes	992 72
For miscellaneous	73 00

2,600 81

356 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Police court:			
For carpentering and repairs	\$35 95		
For hanging awnings	3 65		
For rent of telephone instruments	87 00		
For plumbing	33 50		
For locksmithing	3 50		
For papering and kalsomining	30 25		
For hauling ashes	4 00		
			\$197 85
Police department:			
For blacksmithing	41 25		
For plumbing	197 05		
For gas fixtures	2 10		
For carpentering	18 45		
For numbers	70 00		
For balance on exchange of horse	65 00		
For insect extract	12 00		
For rent of telephone instruments	321 27		
For awnings	15 00		
For stamps	15 00		
For repairing chairs	7 25		
For repairing clock	1 50		
For hanging sign	2 50		
For hauling ashes	1 50		
For repairs to ambulance	81 50		
For repairs to van	3 50		
For hire of ambulance	29 00		
For bookbinding	62 50		
For locksmithing	75		
			947 12
Washington Asylum:			
For blacksmithing	12 76		
For platform scale and seeds	205 30		
For rent of telephone instruments	46 00		
For clock	7 50		
For repairs to vehicles	10 00		
For carts	153 00		
For exchange of old carriage for new	300 00		
For glassware and crockery	80 38		
For repairing clocks	11 00		
For locksmithing	5 00		
For tent-fly	12 00		
For sleigh	40 00		
For borax soap stock	40 00		
For miscellaneous	8 20		
			931 14
Fire-alarm:			
For plumbing	28 25		
For rent of telephone instrument	5 60		
For sewer-pipe	3 00		
			36 85
Collector:			
For dog-tags	112 50		
For whitewashing	5 00		
For plumbing and gas-fitting	52 79		
For carpentering and repairs	13 80		
For blacksmithing	6 50		
For stamp	23 00		
For repairing stamps	19 00		
			232 59
Health Office:			
For dies and stamps	45 00		
For carpentering and repairs	44 20		
For plumbing	21 00		
For one horse	150 00		
For hanging awnings	7 60		
For rent of telephone instruments	114 22		
For blacksmithing	83 62		
For repairs to vehicles	308 30		

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 357

Health Office—Continued.

For repairs to clocks	\$3 00
For bookbinding	9 50
For miscellaneous	15 50

\$801 94

Treasurer and assessor :

For carpentering and repairs	\$57 00
For blacksmithing	14 63
For wagon	135 00
For bookbinding	130 50
For bookbinding material	48 45
For repairs to wagon	22 25
For hire of horse	121 00
For one bay horse	150 00

\$678 83

Parking commission :

For tree boxes and stakes	1,207 50
For hauling tree boxes	29 37
For agricultural implements	14 70
For repairs to wagon	39 75
For trees	44 86
For labor	13 37
For grass seed	1 50
For soil	65 10
For blacksmithing	84 41
For one roan horse	150 00

1,650 50

Inspector of buildings :

For blacksmithing	19 63
For repairs to wagon	32 95

52 58

Auditor and comptroller :

For bookbinding	54 20
For carpentering and repairing	14 23
For calcimining	10 00

78 43

Special assessment division :

For stamp	8 00
For self-inker	16 00

24 00

Coroner :

For set of post-mortem instruments	12 00
For rent of telephone instruments	46 00

58 00

Attorney :

For rent of telephone instruments	46 00
---	-------

Conveyance of prisoners :

For blacksmithing	88 29
For pasturage	6 00
For repairs to van	205 25

299 54

Markets :

For gas fixtures and burners	11 25
For plumbing	14 60

25 85

Liquor license board :

For self-inker and dates	10 00
--------------------------------	-------

Total for miscellaneous supplies, expenses and repairs..

16,835 45

Total for the year ending June 30, 1881

263,518 90

JOHN B. CLARK,
Superintendent of Property.

Z—REPORT OF THE HEALTH OFFICER.

OFFICERS OF THE HEALTH DEPARTMENT.

HEALTH OFFICER.

Smith Townshend, M. D.

CHIEF CLERK.

J. C. McGinn.

ASSISTANT CLERKS.

John N. Dickson.
Will A. Short.

T. W. Parsons.

W. B. Jones.
A. J. Marsh.

SANITARY INSPECTORS.

A. J. Heird.
Jas. McV. Mackall, M. D.
R. M. Barr.

Thomas M. Shepherd.
Theo. Mead, M. D.
C. C. Simms.

INSPECTOR OF PLUMBING.

Samuel A. Robinson.

FOOD INSPECTORS.

George P. Bohrer.

Caleb Sebastian.*

Wm. J. Cooke.

INSPECTOR OF MARINE PRODUCTS.

Gwynn Harris.

POUND MASTER.

Samuel Einstein.

MESSENGER.

P. H. Godwin.

PHYSICIANS TO THE POOR.

J. W. Little, M. D.
Henry Darling, M. D.
H. Suter, M. D.
H. M. Newman, M. D.
J. Walter, M. D.

B. M. Beall, M. D.
A. E. Johnson, M. D.
H. E. Leach, M. D.
A. A. Marsteller, M. D.
D. B. Street, M. D.

W. P. C. Hazen, M. D.

* Detailed from Metropolitan police force.

CONTENTS.

	Page.
Washington malaria	362
The inspection of plumbing	365
Regulations governing plumbing, house drainage, and the ventilation of house sewers	366
Air supply in dwellings heated by hot air	370
The abatement of nuisances	371
Consolidated report of nuisances for ten years, ending June 30, 1881	372
Consolidated report of nuisances for the year ending June 30, 1881	372
Alleys	373
Ashes	373
Defective drainage and house sewers	374
Soap factories	374
Garbage	374
House nuisances	374
Manure	375
Sewer-traps or catch-basins	377
Food inspection	377
Unwholesome food condemnations for nine years, ending June 30, 1881	380
Unwholesome food condemned during the year ending June 30, 1881	379
The inspection of marine products	381
Inspection and condemnation of marine products for the year ending June 30, 1881	382
Inspection and condemnation of marine products for nine years ending June 30, 1881	383
The pound service	384
Operations of the pound for the year ending June 30, 1881	385
Animals impounded during the ten years ending June 30, 1881	385
The sick poor	387
Our well or pump water	387
Analysis of pump water	388
Sanitary survey by squares	391
Investigations to ascertain local cause of disease	410
Report of medical sanitary inspector	410
Vital statistics	413
Zymotic diseases	416
Constitutional diseases	416
Local diseases	418
Developmental diseases	418
Violence	419
Additions to the library	571
List of registered physicians	573
List of registered undertakers	575
List of registered plumbers	576

Z —REPORT OF THE HEALTH OFFICER.

OFFICERS OF THE HEALTH DEPARTMENT.

HEALTH OFFICER.

Smith Townshend, M. D.

CHIEF CLERK.

J. C. McGinn.

ASSISTANT CLERKS.

John N. Dickson.
Will A. Short.

T. W. Parsons.

W. B. Jones.
A. J. Marsh.

SANITARY INSPECTORS.

A. J. Heird.
Jas. McV. Mackall, M. D.
R. M. Barr.

Thomas M. Shepherd.
Theo. Mead, M. D.
C. C. Simms.

INSPECTOR OF PLUMBING.

Samuel A. Robinson.

FOOD INSPECTORS.

George P. Bohrer.

Caleb Sebastian.*

Wm. J. Cooke.

INSPECTOR OF MARINE PRODUCTS.

Gwynn Harris.

POUND MASTER.

Samuel Einstein.

MESSENGER.

P. H. Godwin.

PHYSICIANS TO THE POOR.

J. W. Little, M. D.
Henry Darling, M. D.
H. Suter, M. D.
H. M. Newman, M. D.
J. Walter, M. D.

B. M. Beall, M. D.
A. E. Johnson, M. D.
H. E. Leach, M. D.
A. A. Marsteller, M. D.
D. B. Street, M. D.

W. P. C. Hazen, M. D.

* Detailed from Metropolitan police force.

CONTENTS.

	Page.
Washington malaria	362
The inspection of plumbing	365
Regulations governing plumbing, house drainage, and the ventilation of house sewers	366
Air supply in dwellings heated by hot air	370
The abatement of nuisances	371
Consolidated report of nuisances for ten years, ending June 30, 1881	372
Consolidated report of nuisances for the year ending June 30, 1881	372
Alleys	373
Ashes	373
Defective drainage and house sewers	374
Soap factories	374
Garbage	374
House nuisances	374
Manure	375
Sewer-traps or catch-basins	377
Food inspection	377
Unwholesome food condemnations for nine years, ending June 30, 1881	380
Unwholesome food condemned during the year ending June 30, 1881	379
The inspection of marine products	381
Inspection and condemnation of marine products for the year ending June 30, 1881	382
Inspection and condemnation of marine products for nine years ending June 30, 1881	383
The pound service	384
Operations of the pound for the year ending June 30, 1881	385
Animals impounded during the ten years ending June 30, 1881	385
The sick poor	387
Our well or pump water	387
Analysis of pump water	388
Sanitary survey by squares	391
Investigations to ascertain local cause of disease	410
Report of medical sanitary inspector	410
Vital statistics	413
Zymotic diseases	416
Constitutional diseases	416
Local diseases	418
Developmental diseases	418
Violence	419
Additions to the library	571
List of registered physicians	573
List of registered undertakers	575
List of registered plumbers	576

REPORT.

I have the honor to present herewith statements in detail covering the operations of this department for the fiscal year ending June 30, 1881. I trust that these statements may give evidence of substantial progress in the right direction. Our labors in this branch of the public service have been put forth in an earnest energetic effort to accomplish all possible good for the District of Columbia, and it affords me much pleasure to be able to say that our showing as to healthfulness is even better than that of last year. Seventy-one less deaths occurred during the year ending June 30, 1881, than during the year preceding. The total number of deaths occurring was 4,136, of which number 2,206 were of white persons, and 1,931 of colored persons, showing a death-rate of 18.18 per 1,000 per annum for the white, 31.27 for the colored, and 22.60 for the total population. Of the decedents 1,678 were children under five years of age, while 707 were persons 60 years of age and over.

There were 3,595 births, 812 marriages, and 363 still-births reported. The following tabular statement gives, in a condensed form, the deaths by class, sex, and color, with percentages and death-rates :

Deaths by classes, arranged according to sex and color, with percentages and annual death-rate for year ending June 30, 1881.

Classes.	Deaths.							Percentages to total deaths by color and sex.				Annual death-rate.		
	White.		Colored.		White.	Colored.	Total.	White.		Colored.		White.	Colored.	Total.
	Male.	Female.	Male.	Female.				Male.	Female.	Male.	Female.			
Zymotic diseases	292	248	181	186	540	367	907	24.76	24.17	19.65	18.41	4.50	6.12	5.04
Constitutional diseases	274	269	225	312	543	537	1,080	23.24	26.16	24.43	30.89	4.52	8.95	6.00
Local diseases	461	334	392	363	795	755	1,550	39.10	32.55	42.56	35.94	6.63	12.58	8.61
Developmental diseases	99	144	85	125	243	210	453	8.40	14.04	9.23	12.38	2.02	3.50	2.52
Violence	53	31	38	24	84	62	146	4.50	3.02	4.13	2.38	.70	1.03	.81
Total deaths	1,179	1,026	921	1,010	2,205	1,931	4,136	.....	.....	.....	.....	18.40	32.2	22.98

Mean annual death-rate from September 1, 1874, to June 30, 1881 ...	{	White	19. 20
		Colored.....	37. 67
		Total	25. 30

Mean barometer for year, 30.07 inches; mean temperature, 53.2°; mean percentage of humidity, 70.6; total amount of rainfall, 43.56 inches.

Again we have been blessed with freedom from disease in epidemic form, while some of the cities around us have been scourged with small-pox, diphtheria, scarlet fever, &c.

The following is a brief statement of work performed in the various branches of the department:

There were 20,071 nuisances reported and abated; 31,902 pounds of meat, 13,491 bushels of fruit and vegetables, 142,554 pounds of fish, and 10,186 bushels of oysters condemned as unfit for food; examinations and reports made on 1,882 citizens' complaints; orders issued for burial at public expense in 568 cases; examinations made to ascertain local cause of disease in 124 cases; 1,193 official letters written; 2,341 official notices issued; 67 cases referred to the attorney for prosecution under the health ordinances; 3,651 animals impounded; 2,805 dogs killed; 5,957 dead animals, 10,560 tons of garbage, and 15,881 barrels of night-soil removed; 150 deaths referred to the coroner for investigation; 4,775 permits for burial issued; the regular monthly reports compiled and sent out, and the office work conducted.

WASHINGTON MALARIA.

In the health department, probably more so than in any other branch of the public service of the District government, are we compelled to delay the commentary portion of our report; the tabular work requisite to intelligently illustrate the statistics relating to births, marriages, and deaths, and render them of some value to the statistician, is necessarily extensive, and covers some time after the expiration of the year which the report includes. During the time of preparation questions may arise in the public mind which demand prompt consideration, and which it may be well to answer or discuss promptly. As the period intervening between the date properly covering this report, and that at which it is being prepared for the public hands, was a period during which more than ordinary interest centered upon us, I think I may be pardoned if I enter into a little explanation coupled with a comparison relative to the healthfulness of ours and other cities during the past few historic weeks.

Washington, its ins and outs, its uprising and its down sitting, its every fluctuation and its every change, is usually heralded to the world, but the events of the memorable months of July, August, and September, 1881, have made it during that time, more than ever, a cynosure for all eyes and a subject for every critic. We have been discussed latitude, longitude, meteorology, topography, and climate. Our atmosphere has been descanted upon by many who were as fully acquainted with their subject as they were with the surface of the earth surrounding the north pole. Our sewerage and drainage has been discussed pro and con by others just as well informed. The mirror has been held up to an imaginary Roman Campagna, or black hole of Calcutta, and Washington and the District of Columbia pictured as the reflection. It would be useless of course for me to attempt a description of the condition of the public mind which influenced, called for, or tolerated, such senseless, unfounded, and yet startling, vaporings as were heralded forth regarding the sanitary condition of our cities. A prominent New York divine, influenced no doubt by the daily press reports, spoke from his pulpit in ominous tones of "the pestilential atmosphere surrounding the abiding place of our Chief Magistrate." Indeed, I wonder that the atrocious crime of July the 2d has not itself been charged up to the account of "Washington malaria." Malaria has been a fruitful theme. It has furnished columns upon columns to the daily and weekly press, giving work to numerous typos, startling reading matter to the general public, and has oftentimes proven a very convenient shelter for the puzzled doctor. I think that most of the "ills which human flesh is heir to" have at some time found cover beneath its seven letters. The attempted

definitions of the term "malaria" are rather vague and unsatisfactory, and the manner in which it moves and the dire results which follow are equally strange and unaccountable. Malaria is the cause of many ills in many forms here in the District, or at least it is so accredited. True, many of the same conditions arising from "malaria" *here*, result from entirely different causes in other sections of the country.

When our lamented President had been on his bed of suffering for several days, and his attendants, earnest and eager in his behalf, unmindful of themselves, had been, night and day, watching and waiting by his side, "malaria" stepped in and took hold of them, one by one—something it had never done before.

One of our authorities, in attempting to define or describe malaria, says: "It is proved by the experience of all ages that there is an intimate connection between marshy districts and certain diseases, especially the various forms of intermittent and remittent fever; but the exact nature of the noxious agent and the circumstances upon which its formation and extrication depend are, even at the present day, not altogether established. It is clearly neither heat nor moisture, for the crews of clean ships, when cruising in the tropics, at a distance from the land, are usually very healthy; nor is it any known gas extricated from the marsh, for the gases collected by stirring up marshes (carbonic acid, nitrogen, oxygen, and carburetted hydrogen) may be inspired without giving rise to any of the symptoms resembling those produced by malaria. It may be regarded as an established fact that the noxious agent is a product of vegetable decomposition *accruing under certain conditions of heat and moisture.*"

The "certain conditions" under which it takes hold of its victims are as mysterious and unaccountable as those under which it is produced.

If one of the President's attendants had been taken sick at Elberon it would probably have been from some disease other than malaria. No other would have dared try to usurp malaria's rights at the White House; malaria has a monopoly here. Dyspepsia has been termed our "national disease." Malaria may be said to have attained a widespread reputation as our national capital disease. If a man stepped upon an orange peel upon one of our pavements, and, slipping down, sustained a fracture of some limb, there are those who, two weeks later, would go to work to demonstrate to you the effect of malaria as a prime factor in that man's case and condition. When an excuse is wanted for any abnormal condition of the human system, malaria comes up as naturally as quinine is taken down. It has really become fashionable. No one thinks of suffering from anything other than malaria. Now, it is not my intention or desire to attempt a denial that the conditions attendant upon what is supposed to be a malarious atmosphere exist to a certain extent in certain portions of the District of Columbia, but what I do want to assert and proclaim is the fact that that prominence and sensational coloring given to everything coming from the national capital during the late exciting period has given undue prominence to this question of Washington malaria and done gross injustice to the healthfulness of our climate.

It is generally accepted as a fact that the malaria which does exist in our cities arises from the flats or marshes on our river front; and I think all are persuaded of the necessity which demands action, looking to the eradication of this evil from our midst. At the same time, we know full well, in the light of present knowledge, that what are known as the malarial diseases depend not alone upon the miasma from marshes for their origin. They are found to exist in locations far re-

moved from any such influence. Filthy streets and foul gutters in a city; the saturation of the soil about dwellings; the foul air from damp, unventilated cellars; the accumulated filth from domestic animals; the defective drainage of houses; to all these sources have been traced the responsibility for just such an effect upon the human system as is accredited to the malaria of the marshes. Zymotic diseases are those which the best of authority teach us are dependent upon an impure air. They might be termed filth diseases. Filth of some kind, whether it be the decayed vegetable matter on a marsh, the decayed cabbage in a country cellar, or the decaying remains of a domestic animal on a city street, either render the air impure; and the impurities taken into the lungs poison the blood and produce disease.

Now, the principal disease attendant upon the breathing of an air rendered impure from any of the causes named are diarrhœal diseases, typhoid fever, malarial fevers, scarlet fever, diphtheria, and small-pox. Below is given a list of fourteen of our prominent cities, with a comparative statement, showing the deaths occurring in each from the diseases above referred to, the percentage of same to the total deaths, and the annual death-rate therefrom for the very period when such a howl was made about Washington malaria, viz, from the middle of June to the middle of September, 1881.

The figures are those given by the authorities of the cities named, and are assumed to be correct.

Comparative statement showing deaths from principal zymotic diseases in the fourteen cities named during the thirteen weeks ending September 17, 1881.

Cities.	Population.	Total deaths.	Annual death-rate for total deaths.	*Deaths from the principal zymotic diseases.	Percentage of these zymotic diseases to total deaths.	Annual death-rate from these zymotic diseases.
New York.....	1, 206, 577	10, 952	36. 31	4, 383	40. 02	14. 53
Philadelphia.....	846, 980	5, 169	24. 41	1, 021	19. 75	4. 82
Brooklyn.....	566, 689	4, 387	30. 96	1, 709	38. 93	12. 06
Boston.....	362, 535	2, 283	25. 19	763	33. 42	8. 42
Saint Louis.....	350, 522	2, 718	31. 02	835	30. 72	9. 53
Baltimore.....	332, 190	2, 681	32. 28	920	34. 32	11. 08
Cincinnati.....	255, 708	2, 233	34. 93	559	25. 00	8. 74
New Orleans.....	216, 140	1, 554	28. 78	419	26. 96	7. 76
†Hudson County, New Jersey.....	187, 950	1, 474	31. 36	461	31. 28	9. 80
District of Columbia.....	180, 000	1, 296	28. 69	460	35. 50	10. 22
Pittsburgh.....	156, 381	1, 396	35. 70	635	45. 42	16. 24
Milwaukee.....	115, 578	808	27. 97	242	30. 00	8. 37
Providence.....	104, 857	571	21. 80	159	27. 85	6. 07
Charleston.....	50, 000	542	43. 36	125	23. 09	10. 00
Totals and means.....	4, 932, 107	38, 064	30. 87	12, 691	33. 34	10. 29

* Diarrhœal diseases, typhoid fever, malarial fevers, scarlet fever, diphtheria, and small-pox.

† Jersey City.

It will be seen by an examination of the above that we stand fifth highest in our showing of the annual death-rate from the principal zymotic diseases for the period named. Those cities which show a higher death-rate are Pittsburgh, New York, Brooklyn, and Baltimore. Saint Louis and Jersey City are each less than one in one thousand, and Boston, Cincinnati, and Milwaukee each less than two in one thousand below us, while the mean annual rate for the whole taken together stands seven-hundredths above the rate shown for our cities. In other

words, the 180,000 population of the District of Columbia during the time covered in this statement lost 1,296 of its number, or an annual death-rate of 10.22 per 1,000, while the 4,932,107 population of the communities named lost 38,064, or at the rate of 10.29 per 1,000 per annum. These figures speak for themselves, and demonstrate very clearly that what is accomplished by "Washington malaria" here, is rendered possible by different agencies in other localities.

We have no reeking streets and foul gutters; our surface soil and sub-soil is generally well drained; our dwellings are as a rule well drained and properly ventilated, and we guard against accumulations of filth.

There is no city in this country where the health authorities are held to such strict account and so much expected of them, and there is none where so much has been accomplished by sanitary reform. With the Potomac flats nuisance removed from our doors, we would stand *par excellence* the most healthful as well as the most beautiful city in the world.

THE INSPECTION OF PLUMBING.

House drainage and plumbing work are subjects to which considerable attention has been given in the pages of my former reports, and I think I may be pardoned when I say that what has at last been accomplished is a matter upon which the people of this District are to be sincerely congratulated. Early in my experience as health officer I began to appreciate the necessity for applying some remedy to the evils which were constantly appearing as a result of defectively constructed sewers and "scamped" plumbing work. In my report for the year 1878 I called attention to the subject under the head of "sewer gases in dwellings," as one worthy of and demanding special attention. I said then:

There should be employed, under direction of the health officer, a competent person whose duty it should be to inspect all houses in course of erection and investigate the construction and arrangement of the sewers, sewer traps, waste and drain pipes.

It should be necessary to have a certificate as to the correctness of the sewers, sewer traps, and drain pipes ere the property could be inhabited, and any person failing to do plumbing work properly, whereby noxious gases might enter premises, should be liable to fine.

I urged that the attention of Congress be called to the matter, and in the winter of 1878 had a bill "authorizing the employment of an inspector of plumbing in and for the District of Columbia, and for other purposes" framed and presented.

The necessity for such legislation was made apparent to the members of the House Committee on the District of Columbia, and they reported the bill favorably. It passed the House of Representatives in the early part of 1879, but action could not be secured in the Senate at that session of Congress. In my report for 1879 I dwelt at length upon the subject of "house drainage, sewer gas, and defective plumbing," and tried to give, in the most forcible manner possible, the reasons why there should be no further delay in making and enforcing laws covering the subject. The passage of the bill by the Senate was finally secured, but it was slightly amended, which, of course, sent it back to the House, where, owing to a press of other business, it was left untouched upon the Speaker's table. Laborers in a good cause should not be discouraged, however, and at the last session of Congress it was again presented and finally passed. On January 25, 1881, it received the ap-

proval of the President and became a law. The text of the bill was as follows:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be appointed by the Commissioners of the District of Columbia an inspector of plumbing for said District, whose duty it shall be to inspect all houses in course of erection, and pass upon the plumbing and sewerage of said houses. And the health officer of the District of Columbia is hereby authorized, under direction of the Commissioners, to execute and enforce regulations governing plumbing, house drainage, and the ventilation of house sewers; and any person who shall neglect or refuse to comply with the requirements of the said regulations when promulgated shall be punished by a fine of from twenty-five to two hundred dollars for each and every such offense, or in default of payment of fine to imprisonment for thirty days.

The duty imposed upon the health officer of executing and enforcing regulations was no light task, but it was entered upon as earnestly as the previous work in the same direction had been pursued. After careful study of the theories of some of our best known authorities on plumbing, sanitary engineering, &c., and comparison with what our own experience taught us must prove necessary in this District, an outline of regulations was framed. A copy of this outline was sent to each of our leading authorities on the subject in this country, and one to each of the plumbers in this District.

To them I frankly stated that as we were among the pioneers in this sort of work in this country, and, indeed, as very little had been done in the same direction anywhere, we had not the experience of others to guide us, and consequently must rely, to a great extent, upon the practical experience of practical men in getting an insight into what might be required to secure the proper performance of such work. That it was the earnest desire of the health officer to do nothing which would work unnecessary hardship to the plumbers, and to leave nothing undone which would tend to promote the health and protect the lives of the people of this District.

I asked that they look them over carefully, and that they point out anything which might be considered a defect.

In response I received much valuable information and advice, and through this channel desire to return thanks to Col. George E. Waring, James C. Bayles, Charles F. Wingate, Henry C. Meyer, Dr. J. S. Billings, many of the plumbers of this city, and others. The city plumbers were requested to meet and confer with the health officials, and they responded promptly. The provisions of the regulations were, as a rule, satisfactory to those whom they were intended to control, and the few points which met with objection the plumbers were asked to confer among themselves upon and suggest such change as, in their opinion, justice demanded.

Thus the first code of regulations governing plumbing and house drainage in vogue in this country was prepared and adopted as follows:

REGULATIONS GOVERNING PLUMBING HOUSE DRAINAGE,
AND THE VENTILATION OF HOUSE SEWERS IN THE DIS-
TRICT OF COLUMBIA.

ACT authorizing the employment of an inspector of plumbing in and for the District of Columbia, and for other purposes.

Act author-
izing appoint-
ment of inspector
and execution
and enforcement
of regulations.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be appointed by the Commissioners of the District of Columbia an inspector of plumbing for said District, whose duty it shall be to inspect all houses in course of erection, and pass upon the plumbing and sewerage of said houses. And the health officer of the District of Columbia is hereby authorized, under the direction of the Commissioners, to execute and enforce regula-

tions governing plumbing, house drainage, and the ventilation of house sewers; and any person who shall neglect or refuse to comply with the requirements of the said regulations, when promulgated, shall be punishable by a fine of from twenty-five to two hundred dollars for each and every such offense, or in default of payment of fine to imprisonment for thirty days.

Approved, January 25, 1881.

In accordance with the foregoing act of Congress, and in pursuance of authority thereby conferred, the following regulations are made and promulgated for the information and guidance of all concerned:

SECTION 1. These regulations governing plumbing, house drainage, and the ventilation of house sewers shall take effect and be in force in the District of Columbia from and after August 1, 1881, and all work of the character named, thereafter placed in or upon any structure in the said District, shall be done in accordance with the provisions of the same. Regulations to take effect.

SEC. 2. 1. It shall be the duty of the inspector of plumbing, under direction of the health officer, to sign and issue all notices and certificates, to keep a daily record of his work, including all notices and applications received, violations of these regulations, and all other matters which may pertain thereto; to make daily, weekly, and quarterly reports, and an annual report of his operations to the health officer. Duties of the inspector of plumbing.

2. He shall inspect all houses in course of erection, alteration, or repair, as often as may be necessary, and shall see that all plumbing, drainage, and sewerage work is done in accordance with the provisions of these regulations. Report to be made.
Houses to be inspected.

3. He shall take and subscribe an oath or affirmation that he will faithfully perform the duties of his office, and shall, before entering upon its duties, execute a bond to the District of Columbia in the sum of five thousand dollars, with three sureties, to be approved by the Commissioners, conditioned upon the faithful performance of the duties of his office and for the benefit of all persons aggrieved by his acts or neglect. Oath to be taken and bond entered into.

SEC. 3. It shall be the duty of every person doing business as a plumber, or engaged in conducting plumbing or house drainage in the District of Columbia, to register his or her name in a book to be provided for that purpose at the health department, giving full name, residence, and place of business, and in case of removal from one place to another in said District to make change in said register accordingly; and it shall be the further duty of every such person to give good and sufficient bond in the sum of five hundred dollars, to be approved by the Commissioners of the District of Columbia, conditioned upon proper performance of their work. Plumbers to be registered.

SEC. 4. Before proceeding to lay or construct any portion of the drainage system of any house, the owner, or his architect or agent, shall file with the health officer, for the inspector of plumbing, a plan thereof showing the said drainage system entire, from its connection with the main sewer to terminus in house, together with the location of all branches, traps, ventilating pipes, &c. The name of the plumber who is to perform the work shall be given on said plan, which must be approved by the inspector of plumbing before any portion of the work shall be executed. Plan of plumbing work to be filed at the Health Department.

SEC. 5. Every soil, drain, or waste pipe above ground shall be of metal. All soil pipes above ground shall be of iron, with leaded or screwed joints, not less than three inches in diameter, and shall be extended full size through roof of house. Material of soil, drain, or waste pipes.

2. No soil or drain pipe shall be laid under the house, unless absolutely unavoidable. When necessary to lay a soil or drain pipe under house, said pipe shall be of iron with leaded joints, or vitrified pipe embedded in a hydraulic concrete base of not less than five inches thickness, and shall be so located as to be readily accessible for inspection. Soil and drain-pipes not to be laid under house.

3. All soil, drain, waste, and supply pipes shall be concentrated as much as possible, protected from exposure, and shall be so located as to be readily accessible for inspection. Pipes to be concentrated as much as possible.

4. All safes and refrigerators shall be drained by special pipes terminating out of doors, and not directly connected with the sewer. "Safes" to be drained by special pipes.

368 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Rain-water leaders not to be used as soil pipes or ventilators. 5. No rain-water leader shall be used either as a soil pipe or as a ventilator for sewer.

No brick or metal flue to be used as ventilator. 6. No brick, sheet metal, or earthenware flue shall be used as a sewer ventilator.

Leaders to be of iron when used in connection with drainage system. 7. Rain-water leaders, when used in direct connection with any part of the drainage system of a house, shall be of iron with leaded joints.

Iron pipes to be painted. 8. All iron, soil, and sewer pipes shall be coated inside and out with coal tar, applied hot, or with some equivalent therefor.

Weight of pipe to be used. 9. The weight of all iron pipe used shall be not less than:

For six-inch pipe, 20 pounds per lineal foot.

For five-inch pipe, 17 pounds per lineal foot.

For four-inch pipe, 13 pounds per lineal foot.

For three-inch pipe, 9½ pounds per lineal foot.

For two-inch pipe, 5½ pounds per lineal foot.

Iron pipes to be tested. 10. If deemed necessary, iron pipes before being concealed shall have openings stopped, and shall be filled with water and allowed to stand twenty-four hours for inspection.

No traps on vertical soil pipes. SEC. 6. 1. No traps shall be placed on or at the foot of vertical soil pipes so as to impede circulation.

When traps shall be used. 2. All water-closets, sinks, basins, wash-trays, &c., shall have suitable and approved traps placed as near as practicable to said fixtures.

Trap on main drain. 3. A running trap shall be placed on every main drain at an accessible point.

Main drain to be ventilated. SEC. 7. 1. Every main drain shall have an inlet for fresh air entering on the house side of trap and carried to such point on the outside of house as may be approved by the inspector.

Ventilation of traps. 2. Each and every trap shall have a special vent pipe, of iron, extending either above roof of house or into the soil pipe above the highest fixture.

Size of vent pipes. 3. The vent pipe for each water-closet trap shall be not less than two inches in diameter, and for traps under other fixtures not less than one and one-half inches.

Manner in which sewers shall be laid. SEC. 8. 1. All underground sewers shall be laid in trenches, cut at a uniform grade, and on either gravel thoroughly rammed or a hydraulic concrete base of four inches thickness.

Fall prescribed. 2. All sewer pipes shall have a fall of at least one-fourth inch to the foot when practicable.

Changes in direction and branches. 3. They shall be laid in straight lines. All changes in direction shall be made with curved pipes, and all connections with Y branch pipes and one-eighth bends.

Connection of lead with iron pipes. 4. All connections of lead with iron pipes shall be made with brass thimbles, full size of iron pipe, caulked into the iron with lead, and plumbers' wiped joints.

Vaults, sinks, and cess-pools not to be connected with the drainage system. SEC. 9. 1. No vault, sink, cess-pool, or dry well shall be in any way connected with the drainage system of any house.

Overflow pipes to be trapped. 2. All overflow pipes from tanks and cisterns shall be provided with traps, as required in section six. They shall be disconnected from drainage system and in all cases shall deliver outside the house.

Strainers to be used. 3. All pipes from sinks, wash-trays, &c., shall be provided with strong metallic strainers.

Tanks or cisterns to be used when necessary. SEC. 10. 1. Where water supply is not ample for proper flushing of water-closets, &c., the inspector of plumbing may, in his discretion, order the erection of a tank or cistern, into which water may flow at night or into which it may be pumped.

Supply for domestic purposes not to be drawn from tank or cistern. 2. Cisterns or tanks, erected for purposes described in the foregoing paragraph, shall not have an overflow pipe connected with any drain, and water supply for domestic purposes shall not be drawn therefrom.

Thorough flushing to be secured. 3. Means for thorough flushing of all soil pipes, drain pipes, and water-closets shall be provided in every case.

Subsoil drains to be provided for damp sites. SEC. 11. Subsoil drains should be provided wherever dampness of site of any proposed dwelling is known to exist.

SEC. 12. 1. The health officer shall be notified promptly, in writing, and upon blank forms to be provided for that purpose, when the plumbing work on any house is completed and ready for inspection. Notification to be given by plumbers.

2. The health officer shall direct the inspector of plumbing, immediately upon notification by the plumber, to proceed at once to inspect and pass upon the work, and all inspections shall be made within twenty-four hours after such notification. Inspection to be made at once.

3. No part of the plumbing work of any house shall be covered or in any manner hidden from view, until after such inspection shall have been made and a certificate of approval issued by the inspector. Work to remain exposed until after approval.

4. The inspector shall promptly condemn and order the removal of any defective material, or of any work done other than in accordance with the provisions of these regulations. Work done not in accordance with the regulations to be condemned.

SEC. 13. Prosecutions for infringement upon the provisions of these regulations shall be made by information filed in the police court of the District of Columbia. How prosecutions shall be instituted.

SEC. 14. These regulations shall be subject to alteration or amendment at any time.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

Approved.

JOSIAH DENT,
THOS. P. MORGAN,
WM. J. TWINING, Major of Engineers, U. S. A.,
Commissioners of the District of Columbia.

ADDITIONAL REGULATIONS RELATING TO PUBLIC SEWERS AND WATER MAINS.

1st. No house or premises will be allowed to be connected with water, sewer, or gas main, without a permit first obtained from the engineer commissioner. This regulation applies to all sewers, whether on private property or in public streets or alleys. Permit required in all cases.

2d. Plumbers desiring to obtain permits for making the necessary excavation for making sewer connections must deposit with the collector of the District of Columbia the cost of branch pipe or other material required for use in connecting with the main sewer. Blank forms of application will be furnished to those plumbers who shall comply with all the requirements of the Commissioners. All applications must be signed by the owner of the premises, and his address written under his signature; signing by agents will not be accepted if the owner resides in the District of Columbia. Permits will be issued in duplicate, one for use of plumber and one for use of owner. Deposit to be made before permit can be obtained. Blank forms. All applications to be signed by owner of premises. Permits to be issued in duplicate.

3d. One dollar is required by law to be paid as permit fee for each house connected, the receipt of which must be endorsed upon the application; the fee to be paid to the collector of the District of Columbia. Fee required.

4th. All water and sewer connections with the street mains and sewers must be inspected by the water and sewer tappers, respectively, before the trench is filled, whether the pipes are run to the building line or not, and all appointments for said tappers must be made when the permit is issued. Sewer laterals are not to be raised or lowered, or otherwise changed, except under the inspection of the sewer-tapper and by permit from the engineer commissioner. Inspections to be made before trench is filled, and no changes allowed except upon permit and under official supervision.

5th. All connections with pipe sewers must be made with Y branches. In all cases where connections are made with brick sewers a terra-cotta junction block must be used. Branches and junction blocks, and all other material for use in or about the public sewers must be purchased from the District. How connections must be made and material procured.

6th. Pipe sewers must not be cut, nor any connections be made in any manhole, trap, or trap lateral. Each house must be drained by a separate sewer, not less than six inches in diameter, having a fall of not less than one in forty, laid (inside the building line) entirely within the lot to which it belongs, and connecting outside the building line, only with that part of the system of drainage intended for it as shown on the general plans of sewerage on file in the office of the engineer commissioner. Pipe sewers not to be cut nor connected with manhole, trap, or trap lateral. Each house to be drained separately. Fall required and bounds prescribed.

Plumberstono-
tify water regis-
trar.

Concrete pave-
ments to be re-
paired by con-
tractor and block
pavements by su-
perintendent of
repairs.

Deposit to be
made for removal
of pavements.

How excava-
tions must be
filled.

Permit to be
kept on ground
while work is be-
ing performed.

Connections to
be made only in
the presence of
the sewer-tapper
and owners to
take all risk.

Valve to pre-
vent back-flow to
be used wherever
necessary.

Time allowed
for filling trench
and relaying
pavement.

7th. All plumbers are required to notify the water registrar of any and all extensions or alterations of water fixtures and pipes made inside of buildings, so that the same may be examined.

8th. All concrete pavements must be repaired by the contractor doing such work for the District government, and all granite block pavements by the superintendent of repairs, at rates to be fixed by the commissioners. Persons desiring to remove said concrete or granite block pavement must first deposit with the chief clerk of the engineer department the sum of ten (\$10) dollars, the receipt for which must be exhibited to the permit clerk before the permit is issued. After the completion of the work the surplus, if any, will be returned.

9th. All excavations must be filled and pavement relaid in as good order as before said excavation was made, within thirty days from commencement of work, and the work must be commenced within thirty days from date of permit. The permit must be kept upon the ground while the work is being done, and shown whenever called for.

The police are instructed to arrest, as required by law, any one they may find making an excavation without a permit.

10th. The connection with the public sewers will be made only in the presence of the sewer-tapper, and the excavation will be left open until his arrival. All permits for tapping sewers are given on condition that owners take all risk of damages that may result from water setting back into the cellars from the main sewers.

11th. In order to prevent as much as possible the setting back of water from sewers, the owner shall be required, at his own cost, to put in a self-acting or other valve in all cases when back-flow from a sewer is to be apprehended; and it shall be the duty of the owner to keep the valve in order, and he must be responsible for its action in all cases. When the sewer connection is of iron, and carried up within the premises as a close pipe, without opening or connection of any kind, above the level of all back-flow, the flood-valve may be dispensed with, being unnecessary.

12th. The trench must be filled up and rammed within 48 hours after making the connection, and the pavement relaid, not less than twenty days after the filling, all in a workmanlike manner, so that no settling will occur. All rubbish must be removed from street on the completion of the work.

Approved December 19, 1881.

In pursuance of authority conferred by the act quoted, Mr. Samuel A. Robinson was appointed as Inspector of Plumbing, and is at present performing the duties in a manner very satisfactory to all concerned. The first annual report of the Inspector of Plumbing will be due next June, and will no doubt prove an interesting document.

AIR SUPPLY IN DWELLINGS HEATED BY HOT AIR.

As a subject closely associated with that of house drainage, and a matter which has not hitherto been treated with that care which its importance demands, I desire to call attention to the ordinary means used in supplying air in the heating of dwellings by means of furnaces and "Latrobe" stoves. So many of our houses have stoves and furnaces defectively constructed in this respect, that I trust the few words which follow may receive careful attention. How many of us who have Latrobe stoves in dining and sitting rooms, have become familiar, in our sleeping-rooms above, with the odor from one or the other of the rooms below. How many occupants of rooms in boarding-houses have come to readily diagnose the complexion of the coming breakfast by turning on the register in their bed-rooms. How often have many of us learned in the room above, supplied from Latrobe in office or sitting-room below, that a poor cigar was being burned by some smoker in the apartment last mentioned. These I give as common illustrations of the channels through which impure air may be brought

to our living and sleeping-rooms. Probably you will say that the odors arising from beefsteak, coffee, and cigars would not be liable to prove detrimental to health, and I grant you the point is well taken. This, however, is not the question. There is any quantity of free pure air all around us, and there is no necessity for breathing that which has been once breathed by the cook, which has passed over the viands fresh or stale, or traveled through the interstices of tobacco, and come out with the smoke of a cigar. All that is required to accomplish the avoidance of such conditions, and the securement of an adequate supply of fresh air to furnaces and Latrobes, is to see that there is a proper cold-air duct taken from some point out of doors, and all means for the taking in of in-door air excluded.

The importance of this suggestion should not be underestimated. In many instances in this and many other cities, hot-air furnaces are located in unventilated cellars, and having no cold-air duct from the outside, the inmates of the entire building are forced to breathe the air taken up from the cellars. The cellar is probably made a receptacle for all refuse from the rooms above, there is an accumulation of ashes and filth in the corner, an imperfectly drained surface and a defective sewer trap to sewer opening in the floor, with other insanitary conditions generating impurities to be taken up by the ducts of the furnace, and conveyed above for use as lung food by the unfortunate and unsuspecting occupants.

Instances are known where the furnace has been set in a pit in the cellar (room not being given between floor and ceiling) and the trenches about this pit found filled with stagnant water, dead rats, mice, &c. Latrobes have been taken out and a hole found under the hearth, whereby all air for rooms supplied was taken from a damp and entirely unventilated cellar. In the winter season with all possible means of ingress for cold air to rooms stopped and the hot air being supplied from such a source as described, can we wonder that cases of typhoid and scarlet fever, diphtheria and other diseases dependent upon impure air are developed? It is said, and very truly, too, that ventilation is wasted when directed against any avoidable pollution of the air. It is the wisest policy to see that nothing is taken into your dwelling by one channel which it may be necessary to construct another to remove. By all means acquaint yourself thoroughly as to from whence comes the air you heat to breathe.

THE ABATEMENT OF NUISANCES.

The number and character of the nuisances abated by direction of this department during the year is exhibited in the following table (Table A), and foots up 20,071. This number is 5,510 less than came to our notice last year, and the fact speaks a word in favor of our sanitary condition.

TABLE A.—Consolidated nuisances for the year ending June 30, 1881.

Nature of nuisance.	1880.						1881.						Total.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	
Alleys	36	32	58	52	49	21	2	17	45	48	33	393	
Alleys need repair		2	1			2	1	3	20	1	7	37	
Alleys, garbage in	20	14	35	24		13			4	14	10	134	
Areas	4		1			5	2	2	6	4	3	28	
Ashes	43	47	61	219	140	79	9	17	76	189	146	71	1,097
Cellars	8	2	2	10	4	3	6	3	21	18	14	13	104
Drainage, defective	68	71	59	59	54	30	4	6	49	65	46	65	576
Factories, soap	1												1
Garbage	28	15	32	34	32	7	5	4	11	6	7	181	
Gutters	35	14	20	13	12	1		1	7	18	20	141	
Hog-pens	24	9	18	17	2	10	1	1	1	7	5	94	
Houses, filthy	29	14	16	16	7	12	1	7	3	19	13	23	160
Houses unfit for habitation	1	17	16	22	2	2	1	4	6	15	29	14	129
Houses, slaughter		1	1	4	1			2	2	11	2	24	
Houses, no privy	7	4	4	2	4	3	4	4	3	3	4	45	
Hydrants	3	2	3	3	2	2		5	3	2	3	31	
Lots, filthy	15	22	29	20	9	1			2	10	18	10	136
Lots, stagnant water ..	4	1		2	3	1			3	6	2	4	26
Manure	40	32	44	45	32	23	8	14	45	44	54	40	421
Markets, public								1					1
Miscellaneous	121	90	66	107	53	65	37	40	100	88	104	98	969
Pumps	1					1		5					7
Pipes, water	1				2	10	4	3	6	4	5	4	40
Ponds	1	2	1									2	6
Privies, filthy	588	437	398	503	369	286	250	240	289	319	328	327	4,314
Privies, dilapidated ...	9	5	3	6	4	8	4	7	5	7	8	3	69
Privies, full	759	626	559	665	447	365	312	282	361	397	377	371	5,521
Privies, leaky boxes ...	210	139	124	108	68	33	9	12	34	47	81	103	968
Roofs, leaky	2	1	5	1	2	9	6	3	7	7	7	5	55
Sewers	32	22	47	27	13	14	19	18	30	32	32	28	314
Sewers, house connection	7	10	11	19	2	3	5	7	11	17	16	7	115
Stables	17	13	28	23	4	10		1	9	11	17	11	144
Stables, cow	6	10	13	13	11	3	7	15	18	14	16	22	148
Streets, filthy	2		2	3							5	4	16
Streets need repair			1										1
Traps, sewer	24	27	19	37	14	4	4	3	10	24	29	39	234
Yards	354	370	411	511	310	173	22	44	191	293	217	228	3,124
Yards, cow	4	4	1	10	7			3	4	4	5	3	45
Vaults, privy	5			2									7
Water-closets	19	9	11	24	10	27	24	17	15	26	17	4	213
Wharves										2			2
Total.....	2,528	2,064	2,100	2,601	1,670	1,226	743	769	1,327	1,759	1,701	1,583	20,071

TABLE B.—Consolidated report of nuisances for ten years ending June 30, 1881.

Nature of nuisance.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	Total.
Alleys	982	1,508	1,986	1,315	800	608	357	453	466	560	9,035
Areas	12	18	18	65	83	52	27	56	35	28	394
Cellars	54	245	175	178	159	115	137	169	136	104	1,472
Drainage, surface	286	658	2,036			228	443	725	645	576	5,597
Excavations	41	48	49	35	19	6	27	15	5		245
Gutters	902	1,008	989	363	323	279	216	178	208	141	4,607
Garbage	457	566	1,128		345	215	219	88	241	181	3,440
Hog-pens	219	211	61	45	68	57	50	49	119	94	973
Houses, filthy	108	800	1,426	871	424	512	245	146	191	160	4,883
Houses unfit for habitation				699				308	139	129	1,275
Houses, condemned					371	153	250				774
Houses, no privy			125	173	86	31	27	50	59	45	596
Hydrants	51	147	64	96	50	27	26	31	26	31	549
Lots, filthy		538	605	190	408	79	103	357	163	136	2,579
Manure heaps	447	981	1,292	1,619	768	513	523	107	293	421	6,982
Markets, public				10	6	15	21	2	6	1	61
Miscellaneous	447	1,020	1,554	1,764	913	617	746	1,080	1,406	2,067	10,604
Pumps	235	93	111	206	21	22	20	6	4	7	725
Pipes, water	23	67	85	79	33	36	48	31	27	40	469

TABLE B.—Consolidated report of nuisances for ten years ending June 30, 1881—Continued.

Name of nuisance.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	Total.
Ponds, stagnant.....	463	174	9	330	166	219	360	195	106	32	2,054
Privies, filthy.....	1,826	5,030		1,591	2,023	909	1,991	3,951	6,517	4,314	28,152
Privies, full.....			6,089	7,300	5,538	9,385	4,745	6,327	8,532	5,521	53,437
Privy-boxes, leaky.....			727	1,035	830	641	896	903	1,518	968	7,518
Privies, dilapidated.....				239	476	188	171	204	87	69	1,434
Roofs, leaky.....						172	301	331	111	55	970
Sewers, public.....		717	182	278	401	215	248	212	270	314	2,837
Sewers, house connection.....			11	1,340	1,641	393	247	317	109	115	4,173
Stables.....	305	711	1,059	682	293	394	456	245	275	292	4,712
Streets, filthy.....	622	531	469	294	186	98	70	92	53	17	2,432
Traps, sewer.....	177	168	225	314	512	254	115	219	225	234	2,443
Yards.....	936	1,480	2,643	2,839	2,610	1,313	1,057	1,719	3,438	3,124	21,159
Yards, cow.....	35	92	84	90	437	151	193	23	23	45	1,173
Vaults, privy.....				70	39	16	17	23	2	7	174
Water-closets.....	10	142	107	318	109	108	120	149	133	213	1,553
Slaughter-houses.....	65	66	56	82	24	14	21	14	19	24	385
Total.....	8,703	16,019	23,365	24,510	20,261	18,095	14,493	18,775	25,587	20,071	189,879

ALLEYS.

The condition of many of our alleys adds largely to the nuisance table every year, and I can only repeat the recommendation formerly made of having the alleys paved and sewered as fast as possible. I take this opportunity also, while speaking of alleys, to indorse the petition of the physicians to the poor, asking that the populated alleys be named and the houses therein numbered. Every movement looking to an improvement of their condition in any way renders the committing of nuisances in them less liable to occur.

ASHES.

Ashes have again contributed a large share to the total number of nuisances reported, no less than 1,097 standing accredited to this account. Iteration and re-iteration is usually necessary to secure the accomplishment of needed reforms, and I propose to continue still further the agitation of this question of the removal of ashes from all dwellings at the public expense. Last year but 425 cases where ash traps had become nuisances were reported, while this year the number has crept up to 1,097. In my last annual report attention was called to this matter in the following words:

This is a subject of no small importance, and one upon which I think action has been too long delayed. No provision is made for the removal of ashes by the authorities, and as a consequence large accumulations are found in alleys, yards, and vacant spaces over the entire area of the two cities. These accumulations of ashes become also a place of deposit for filth and refuse of all kinds, and entice the creating and maintaining of numberless nuisances. On a majority of premises in Washington and Georgetown you will find in cellar, area, or yard such an accumulation. In some cases it is kept in box or barrel, in others it is dumped on the ground or pavement in one corner of the yard. To it is added daily some portion of refuse, animal or vegetable, potato-parings, egg-shells, dish-water, and other refuse. If in the cellar, which you will find in many instances is the case, the foul odors and noxious gases emanating therefrom permeate the entire house, and their constant inhalation by the inmates results in some form of low fever, which no one can account for, and which is accordingly set down, in case of death therefrom, as a visitation of Divine Providence. The ash of wood or coal is not set down in the category of nuisances, and taken alone there is nothing in either to prove injurious to health, but, as I said before, the accumulation invites deposits of animal and vegetable matter, and these decaying do create a nuisance, and one which, if within a building used as a dwelling, is liable to prove injurious to the health of the inmates.

I think, therefore, it would be a wise measure for the authorities to take steps looking to the regular removal of ashes from dwellings. This is a work performed in many cities, and one which I think could be inaugurated and successfully conducted here at no very great expense.

374 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

I would earnestly recommend that an appropriation be asked of Congress at the coming session to meet the requirements of such a service.

DEFECTIVE DRAINAGE AND HOUSE SEWERS.

The good work of bettering the drainage of yards and enforcement of house connection where sewers are available is being pushed forward with due energy. During the year 576 defects in drainage have been remedied and 115 connections with sewers made, upon notice from this department.

SOAP FACTORIES.

This item, so suggestive of appropriateness in the category of nuisances, bids fair to disappear entirely from our list. The figure one covers the year's work in this line, and no further trouble from soap factories is apprehended. The question as to authority of the health department to abate nuisances of this character was finally decided when the legalization of the health ordinances by Congress took place, and the perpetrations of nuisances of that class have yielded submission.

GARBAGE.

The question of the removal of garbage is not new. All are acquainted with the trouble, continued from year to year, and the numerous contracts annulled. We have been hoping against hope for better things in this line. We have been promised by contractors and have promised the people in return. How these promises resulted is known to the public. Now, however, we have better reason to hope; my recommendation of last year, that a sum sufficient to secure a proper performance of the work of removing garbage be asked, was acted upon, and the present contractor is receiving an advance of one-third on the former price for the same labor. The outlook now, it affords me much gratification to say, is that the trouble has been effectually remedied.

The following table shows amount of offal collected and removed during the year:

Months.	Number of dead animals.	Tons of gar- bage.	Barrels of night soil.
1880.			
July.....	573	1,035	1,342
August.....	999	1,923	1,144
September.....	560	2,184	1,139
October.....	449	1,699	1,309
November.....	358	691	889
December.....	305	427.	1,013
1881.			
January.....	111	289	753
February.....	445	445	1,007
March.....	407	502	944
April.....	714	262	1,793
May.....	563	494	2,175
June.....	473	609	2,373
Total.....	5,957	10,560	15,881

HOUSE NUISANCES.

When we come to consider the question of house nuisances, the urgent demand for legalization of sections 7 and 9 of the ordinances (passed

over for some reason at the time action was taken by the Senate) presents itself. Section 9, which applies specially to houses and house nuisances, reads as follows:

SEC. 9. That any dwelling-house or building wherein people live, congregate, or assemble, which is deficient in ventilation, drainage, or other provision essential to health, which has a leaky roof or is below grade, so as to render the walls thereof damp and the rooms unhealthy, or is decayed or filthy, and premises which are filthy and offensive, are hereby declared nuisances injurious to health; and any person who shall create or maintain such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Now, it will be seen by reference to the table that during the year 160 houses have been found in filthy condition, while 129 were in such condition as to be pronounced "unfit for human habitation." The importance of having a law to govern such cases certainly will not be questioned in this enlightened age. I have often wondered what could have been the influence which led to the striking of the two sections named from the list, when the ordinances were legalized. I cannot imagine that such a body as the United States Senate desired to legislate in the interest of penurious landlords who would have tenants live in houses the sanitary condition of which would endanger the health and lives of the occupants, and yet, at the same time, I cannot think that what is supposed to be the body representing the intelligence of our land, in its highest order, failed to appreciate the necessity for placing such a law upon the statute books.

The same argument applies to the action taken on section 7, which relates to *stagnant water on lots*. This section was also stricken out when the resolution legalizing the ordinances was passed. It reads as follows:

SEC. 7. That stagnant water upon any ground or lot within the cities of Washington or Georgetown or the more densely populated suburbs of said cities, and any marshy land, the same being made such by defective drainage or otherwise, are hereby declared nuisances injurious to health; and any person causing, creating, or maintaining such nuisance who shall, after due notice from this board, refuse or neglect to abate the same shall, upon conviction, be fined not less than ten nor more than one hundred dollars for every such offense.

It is greatly to be regretted that the labor in this direction has been so seriously embarrassed by the action referred to. It would scarcely seem necessary to argue in favor of the importance of preserving a well-drained soil and enforcing the removal of all stagnant ponds; such action is strongly urged by all authorities upon hygiene and public health. We can only hope that our lawmakers may be brought to see their mistake and not delay its correction. If the long-pending "municipal code" is not taken up at the coming session of Congress, then some special action should be had looking to a remedy of the evil resulting from the repeal of these two sections of these ordinances.

MANURE.

"Manure and its removal" is a subject which has been discussed in two former reports. The table gives evidence of 421 cases in which nuisances have arisen from this source, and doubtless manure has contributed in greater or less degree to many more.

The time has arrived which demands the adoption of means for the transfer, *through one channel*, of all offal from our cities. The country around the District of Columbia certainly gives evidence of the want of all the sustenance to her soil that the refuse of our cities can give

it. Much more is taken from the farms and market-garden lands surrounding us than is put back. Much more is wasted here than would give ample food to those lands. Victor Hugo, in *Les Misérables*, gives a striking picture of the waste of a great city. The earth, he says, is impoverished by the sea.

Paris [he says] casts twenty-five millions of francs annually into the sea, and this we assert without metaphor. How so and in what way? By day and by night. To what object? For no object. With what thought? Without thinking. What to do? Nothing. By means of what organ? Its intestines. What are its intestines? Its sewers. Twenty-five millions are the most moderate of the approximative amounts given by estimates of modern science. * * * Science, after groping for a long time, knows now that the most fertilizing and effective of manure is human manure. The Chinese, let us say it to our shame, knew this before we did. Not a Chinese peasant who goes to the city but brings at either end of his bamboo a bucket of what we call filth. * * * Thanks to the human manure the soil in China is still as youthful as in the days of Abraham, and Chinese wheat yields just one hundred and twenty fold the sowing. There is no guano comparable in fertility to the detritus of a capital, and a large city is the most important of dungnuxous. * * * To employ the town in manuring the plain would be certain success, for if gold be dross, on the other hand our dross is gold.

What is done with this golden dung? It is swept into the gulf. We send at great expense fleets of ships to collect at the southern pole the droppings of petrels and penguins, and cast into the sea the incalculable element of wealth which we have under our hand. * * * All the human and animal manure which the world loses if returned to the land instead of being thrown into the sea would suffice to nourish the world. * * * Do you know what those piles of ordure are collected at the corners of streets, those carts of mud carried off at night from the streets, the frightful barrels of the night-man, and the fetid streams of mud which the pavement conceals from you? All this is a flowering field; it is green grass; it is mint and thyme and sage; it is game; it is cattle; it is the satisfied lowing of huge oxen at evening; it is perfumed hay; it is golden wheat; it is bread on your table; it is warm blood in your veins; it is health; it is joy; it is life. * * * So desires that mysterious creation, which is transformation upon earth and transfiguration in heaven. Restore this to the great crucible, and your abundance will issue from it, for the nutrition of the plains produces the nourishment of men. You are at liberty to lose this wealth and consider me ridiculous into the bargain. This would be the masterpiece of your ignorance. * * * Each eructation of your drains costs us one thousand francs, and this has two results—the earth impoverished and the water poisoned; hunger issuing from the furrow and disease from the river. These surprising follies are not new; it is no youthful nonsense. Imitate Paris and you will ruin yourself. Moreover, Paris imitates itself, particularly in this immemorial and insensate squandering. * * * “The drains of Rome,” says Liebig, “absorbed the entire welfare of the Roman peasant.” When the Campagna of Rome was ruined by the Roman drains Rome exhausted Italy, and when it had placed Italy in its cloaca it poured into it Sicily, and then Sardinia, and then Africa. The drains of Rome swallowed up the world, and this cloaca afforded its tunnels to the city and the world. *Urbi et Orbi*. Eternal city, unfathomable sewer.

This argument applies alike to the waste of the other offal of great cities as well as to that carried off by its sewers, and it applies to Washington as well as Paris. The day is coming when our sewage must be preserved, and all that is in it to nourish the land taken out and returned to our fields.

Like the Roman cloaca, which absorbed the richness of its own land and then gulped down Sicily, Sardinia, and Africa, so have the sewers in the older cities of this our new world absorbed the sustenance of many fields and farms in the older States without returning anything, and then sent the sons of those who once tilled a rich, fertile soil, off to the great West to open new veins for their vampire mouths. It is time that we were learning something from China in the preservation of our soil. It is nothing new to hear of “played-out” farms in Maryland and Virginia, and there is no reason why all the wealth of manure which is now wasted in the capital should not be applied to those “played-out” farms and set them to again putting “bread on our tables and warm blood in our veins.”

Perhaps the day of irrigating farms for the preservation and utilization of our sewage has not yet arrived, but the day and hour is here which speaks loudly the demand for utilization of all other offal from our cities. We should have one point for the receipt of all refuse, and the law should require that it be there taken and deposited at regular stated periods from all dwellings and places where it accumulates. The authorities themselves should take charge of this material, which should include offal and filth of all kinds, and they should put it in condition to again be placed upon the fields and farms. Let us begin by purchasing a farm of our own and enriching that. A farm of a few hundred acres at some convenient point could soon be made a source of profit to the District. By all means let us have an offal depot and a city farm.

SEWER-TRAPS OR CATCH-BASINS.

Iteration again becomes necessary in referring to the subject of the cleaning of our sewer-traps or catch-basins at street corners. The very dry weather prevailing during the summer and fall of the past year has rendered these receptacles for the sediment of our street washings more than usually offensive, and added (if it were necessary) additional evidence of the demand for some more approved method of cleaning. The work of cleaning these places is performed under direction of the Engineer Department, and I can of course but advise respecting the manner in which it should be done. Nuisances to the number of 234, resulting from the foul and offensive condition of sewer-traps, were reported during the year. To quote my former words on this subject:

It does seem strange that, with the advance of improvements in almost every branch of public work, the present system of cleaning sewer-traps, corresponding to the ancient method of cleaning our cobble-stone streets with hoes and shovels, and the privy-boxes with buckets, should still remain. It certainly looks, to say the least, out of keeping with other things to see three or four men with hooks and buckets dipping the foul accumulations from one of these receptacles, depositing the mass on the pavement, and then dragging it off through the street in open carts, to offend the nostrils of every passer-by. If some pneumatic process cannot be brought into use to abate this nuisance, then, during the summer months, disinfectants should be used, and closed receptacles employed in transporting the material.

The present method is clearly in violation of section 2 of the Health Ordinances.

FOOD INSPECTION.

The following table (Table C) will show the nature and amount of food condemned as unwholesome during the year. Much has been accomplished in this direction during the past few years, but much remains yet to be done which can only be reached through the inspection of live stock and the establishment of an abattoir.

A well-known German authority, in speaking of the subject,* says:

The necessity can no longer be disputed. This arises, first, from the possibility of the infection of meat used for human food; and, secondly, the butchers have not the necessary knowledge, and much less the good will, to consider the health of the people against a possible increase of profits. Butchers, as a rule, do not believe in the danger from diseased meat, and therefore cannot be convinced of what is so clear to us.

The compulsory slaughtering in public abattoirs offers other advantages, which in themselves are sufficient to make it desirable:

(1.) *It will put an end to the driving of cattle through the streets of our larger cities.*—This inconvenience is overcome in Berlin, where, according to the street regulations, cattle moved in the day-time must be transported in closed wagons.

(2.) *Prevention of cruelty in butchering.*—It is not necessary to prove how much cruelty may be practiced in the slaughter of animals. In private slaughter-houses it is not

* "Trichinæ and Trichonosis;" Glazier.

seldom in consequence of insufficient room, deficient arrangements for holding the victim firmly, and especially in consequence of lack of firmness in handling the instrument of death, which can alter the best methods of killing animals to a system of torture. In the large abattoirs the work is divided; every man attains the greatest possible dexterity in his particular work, and thus only can the greatest possible certainty of rapid death be secured. The international congress for the prevention of cruelty to animals, held in Zurich in 1869, saw correctly in the erection of abattoirs an effective expedient to prevent unnecessary pain to animals.

(3.) *Greater cleanliness on account of the more judicious arrangements and cleansing with water.*—The most careful cleanliness in private slaughter-houses cannot compete with the properly arranged abattoirs, because the space, especially in the larger cities, is always very limited, but even in ordinary cases is generally insufficient, and filth is the rule, and it only exceptionally occurs that the accumulations do not become unbearable. In public slaughter-houses the care for the best possible state of cleanliness is increased by its publicity.

(4.) *With the closing of private slaughter-houses in cities abundant sources of air-poisoning are removed.*—Those living in the vicinity of slaughter-houses know best how often in summer the air becomes foul, particularly near open water-courses. The question here not only concerns the foulness and unpleasantness of the air, but from the putrefaction of blood very often arise peculiarly dangerous substances, which are directly infectious, and therefore in densely populated cities the greatest care should be taken to prevent such decomposition.

* * * * *

(5.) *Real progress in the control and extermination of infectious and contagious diseases among domestic animals.*—It is a fact that the public in general is inclined to hide contagious diseases, and on this account it is very difficult to check and especially to exterminate them. Obligatory inspections of slaughtering are by far the surest means of accomplishing this end. The discovery of contagious diseases in the abattoirs is so important, for this reason alone the compulsory use of the public building should be inaugurated in every city. When the enormity of the danger to the public health on account of the diseases of our domestic animals in the present condition of commercial intercourse is considered, and when it is seen that we can seldom prevent their introduction by isolation, but that our efforts must be directed to a rapid destruction—that we can do little to prevent but must act to repress—it may be safely said that a successful exercise of the duties of the veterinary police without legal control of the slaughter-houses can by no means be accomplished.

With all these great advantages to the states and the cities the butchers will lose nothing. On the contrary they have the greater advantage in the expenses; that butchering together is handier and cheaper, and the scraps and offal can be more readily utilized. In former times the slaughter-houses, as the bakeries, were erected solely for the profit to the trade. No supervision was necessary in those days. The butchers know this very well, and when they (as in North Germany) nevertheless oppose the obligatory use of public slaughter-houses by bringing forward all possible difficulties and the cost, they must have some ulterior object, which probably is that they do not wish to be interfered with in their business, which indicates still more the necessity of supervision. The profits made must certainly be great when the butchers reject the very apparent advantages and conveniences of public slaughter-houses.

It may thus be seen that in the most cultivated cities in Europe the necessity of compulsory use of public abattoirs has become apparent, but it seems inexplicable that such measures have not succeeded in North Germany, where the consumption of meat is greatest, and where pork and beef are often eaten in a raw or half-cooked condition, and where therefore the danger of infection is much greater than in other countries.

TABLE D.—Unwholesome food condemnations for nine years ending June 30, 1881.

Articles.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	Totals.
Beef.....	11,650	10,139	9,507	9,396	6,976	9,495	12,365	20,196	13,718	103,442
Veal.....	11,296	2,981	2,495	2,811	3,029	2,436	8,701	5,404	4,071	43,224
Mutton.....	1,335	2,316	2,029	2,135	3,068	1,926	5,438	6,424	2,908	27,579
Bacon, ham, and pork.....	3,853	7,478	4,063	7,875	3,234	5,519	5,559	6,558	3,406	47,585
Birds, rabbits, and squirrels.....	453	861	961	670	819	586	459	1,361	192	6,362
Poultry.....	824	1,800	1,125	3,270	5,284	14,542	1,928	3,261	3,400	35,434
Eggs.....	.....	.....	2,702	2,632	3,314	4,183	1,118	2	3,411½	13,847½
Cheese and butter.....	50	.....	1,559	86	150	.....	327	.....	3,000	52,172
Potatoes.....	.....	167	160	350	242	124	316	281	1,028	2,668
Beans, pease, and onions.....	172	245	705	92	128	121	170	318	260	2,211
Cabbage and lettuce.....	4,458	10,819	9,105	15,118	3,277	5,622	5,473	13,181	6,982	74,035
Squashes and pumpkins.....	.....	88	1,415	1,075	24	66	632	33,385	13,909	50,594
Corn.....	17	121	786	1,032	642	595	1,119	2,360	2,961	9,633
Cucumbers.....	1,976	2,966	3,690	1,624	393	296	814	2,712	3,821	19,292
Egg plants.....	180	359	1,025	1,305	380	404	1,740	3,606	2,703	11,702
Tomatoes and turnips.....	.....	154	195	82	287	158	92	528	429	1,925
Kale.....	.....	18	134	30	124	139	54	233	245	1,977
Apples, peaches, and pears.....	222	287	1,402	257	664	679	63	1,149	422	4,723
Watermelons.....	9,160	7,977	20,689	11,083	15,689	14,585	4,455	21,459	22,313	127,400
Cantaloups.....	2,339	7,117	6,162	6,626	6,514	6,571	6,074	18,231	14,228	73,862
Berries.....	114	2,378	750	652	1,053	538	.....	1,272	4,419	11,176
Cherries.....	158	19	1,336	10,112	1,184	.....	.....	.....	.....	12,809
Cocoanuts.....	.....	.....	513	500	76	.....	.....	196	.....	1,013
Oranges and lemons.....	22	.....	128	206	97	117	826	1,030	1,506	628
Miscellaneous fruits and vegetables.....	.....	27	261	1,213	97	2,703	755	8,901	10,591	5,077
Miscellaneous vegetables.....	391	646	1,241	1,177	1,539	.....	.....	.....	.....	27,014

THE INSPECTION OF MARINE PRODUCTS.

Congress at its last session was convinced of the necessity for providing an inspector of marine products, and we were enabled to dispense with the services of Officer J. R. Sutton, who had been detailed to perform this duty.

Mr. Gwynn Harris was appointed as inspector on July 1, and has proven himself a very capable and efficient officer. The following tabular statement (Table E) exhibits work done in this branch of the service during the year:

TABLE F.—Inspections and condemnations of marine products for nine years ending June 30, 1881.

Years.	Inspections.							Condemnations.								
	Shad.	Herring.	Blue-fish.	Fish, bunches.	Sturgeon.	Oysters, bushels.	Clams.	Crabs.	Shad.	Herring.	Blue-fish.	Fish, bunches.	Sturgeon.	Oysters, bushels.	Clams.	Crabs.
1873.....	852,900	3,789,800	326,200	553,761	496	448,557	524,000	336,600	270	52,600	.....	5,153	.....	6,602	5,050	11,990
1874.....	628,637	6,567,240	89,841	567,291	919	569,372	1,163,000	297,250	149	140	158	6,087	16	8,648	87,600	29,800
1875.....	464,215	1,674,465	56,430	557,203	1,240	305,737	1,110,725	446,525	60	2,125	.....	8,315	18	5,428	47,675	64,800
1876.....	319,079	1,488,950	47,500	483,111	919	355,437	704,975	316,498	54	1,850	.....	7,582	27	4,759	62,915	61,084
1877.....	131,199	2,572,124	5,450	361,749	635	295,997	863,470	347,415	26	7,024	175	6,393	83	10,677	43,540	57,800
1878.....	121,785	2,507,500	40,425	271,727	1,060	351,317	938,225	366,450	.....	.....	.....	5,211	41	15,178	27,950	48,825
1879.....	327,537	3,497,259	70,570	219,635	952	316,377	148,079	584,661	362	15,190	1,262	6,193	32	17,828	77,512	159,626
1880.....	321,225	6,858,839	253,458	179,556	1,094	361,427	1,301,750	698,789	212	166,095	1,473	4,558	4	11,236	54,957	124,648
1881.....	462,517	9,626,683	349,483	201,444	1,124	319,702	994,390	342,344	94	245,400	711	2,990	5	10,186	27,525	99,735
Total	3,629,104	38,584,860	1,239,357	3,395,477	8,439	3,323,923	9,081,614	3,736,532	1,227	490,424	3,779	52,482	226	90,542	434,724	658,308

THE POUND SERVICE.

The following tables exhibit the workings of the pound service during the past ten years. The showing is a very satisfactory one, and reflects credit upon the officer who has served so long and faithfully in the difficult position of pound-master.

The special attention of the Commissioners is invited to the necessity for securing legislation to remedy defect in the act of June 19, 1878, "to create a revenue in the District of Columbia by levying a tax on all dogs therein," &c., and provide for the proper enforcement thereof. In 1879, the first year after passage of this act, the receipts from this source amounted to \$10,505.12; in 1880, the aggregate was reduced to \$8,597.01; and last year it only reached \$3,336.32—as compared with 1879, a clear loss to the District of \$7,168.80. Action should be taken by Congress to remedy the defect in this law and save the amount named to the District.

Last year there were 3,651 animals impounded, of which number 3,177 were dogs; of the number last mentioned 2,805 were killed. During the ten years ending June 30, 1881, there were 29,162 animals impounded, of which number 23,316 were dogs.

TABLE G.—Operations of the pound for the year ending June 30, 1881.

Months.	Impounded.							Disposition.						Amount realized.		
	Horses.	Cows.	Mules.	Hogs.	Sheep.	Goats.	Geese.	Dogs.	Total.	Redeemed.	Killed.	Dogs killed.	Died.		Returned.	Sold.
July, 1880	4	51				15	8	192	270	86	184	175				\$158 00
August, 1880	2	19				13	9	827	870	115	754	745			1	216 25
September, 1880	8	14	4	4		19	10	297	356	90	266	239				159 50
October, 1880	3	16				6	23	278	326	82	239	235	4		1	135 75
November, 1880	1	16				11	13	218	259	69	190	182				113 75
December, 1880	1	1			1	5		122	130	25	104	104			1	52 38
January, 1881	1		2			5		12	20	6	14	11				13 25
February, 1881		2				6		253	261	25	236	231				50 00
March, 1881						4		209	213	25	185	183	3			56 00
April, 1881	5	3				8	6	326	348	43	300	294	5			85 50
May, 1881	9	14	1	3		23		289	339	51	275	248	8	5		123 75
June, 1881	3	52			4	6	40	154	259	114	144	138	1			174 00
Total	37	188	7	7	5	121	109	3,177	3,651	731	2,891	2,805	21	5	3	1,338 13

TABLE H.—Animals impounded during the ten years ending June 30, 1881.

Years.	Horses.	Cows.	Mules.	Hogs.	Geese.	Sheep.	Goats.	Dogs.	Total.
1872	88	225		40	210	124	152	375	1,174
1873	128	359	36	93	165	38	186	1,081	2,086
1874	60	169	22	57	64	4	129	2,200	2,705
1875	36	118	15	23	111		142	2,246	2,891
1876	36	60	5	3	93		162	2,309	2,668
1877	30	75	10	17	128		168	2,456	2,884
1878	44	109	2	17	119		162	2,828	3,081
1879	29	112	10	30	144	2	114	4,956	5,397
1880	32	255	1	12	483	8	106	1,728	2,625
1881	37	188	7	7	109	5	121	3,177	3,651
Total	520	1,660	108	299	1,442	181	1,626	23,316	29,162

386 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

Statement of receipts and expenditures in the pound service for fiscal year ending June 30, 1881.

RECEIPTS.

Date.	Source of receipts.	Amounts.
1880.		
July 1	Balance remaining, fiscal year ending June 30, 1880	\$0 13
31	Pound fees, month of July, 1880	\$153 00
Aug. 31	Pound fees, month of August, 1880	216 25
Sept. 30	Pound fees, month of September, 1880	159 50
Oct. 29	Pound fees, month of October, 1880	135 75
Nov. 25	Pound fees, month of November, 1880	113 75
Dec. 21	Pound fees, month of December, 1880	52 38
1881.		835 63
Jan. 31	Pound fees, month of January, 1881	13 25
Feb. 25	Pound fees, month of February, 1881	50 00
Mar. 29	Pound fees, month of March, 1881	56 00
Apr. 30	Pound fees, month of April, 1881	85 50
May 31	Pound fees, month of May, 1881	123 75
June 30	Pound fees, month of June, 1881	174 00
		502 50
	Total receipts	1, 338 26

DISBURSEMENTS.

Date.	To whom paid.	For what paid.	Amount.
1880.			
July 30	D. McKenzie	Laborer	\$38 75
30	W. L. Mudd	do	35 00
Aug. 31	John Wells	do	32 50
31	Andrew Elliott	do	32 50
31	W. L. Mudd	do	33 75
Sept. 4	Andrew Elliott	do	1 25
27	William Brown	do	1 25
30	Albert Fortune	do	33 75
30	John Wells	do	25 00
30	W. L. Mudd	do	37 50
30	Joshua Murphy	do	32 50
30	Thomas George	do	1 25
30	M. Shanklin	do	8 75
30	Joseph Murphy	do	1 25
Oct. 25	N. H. Camp	Fees returned	2 00
30	Albert Fortune	Laborer	31 25
30	John Wells	do	31 25
30	Joshua Murphy	do	31 25
30	W. L. Mudd	do	37 50
Nov. 23	W. Boswell	Balance from sale	4 62
23	Albert Fortune	Laborer	26 25
23	John Wells	do	26 25
23	J. Murphy	do	26 25
23	W. L. Mudd	do	30 00
Dec. 11	Evening Star	Advertising	1 88
24	John Wells	Laborer	15 00
24	Joshua Murphy	do	15 00
24	Albert Fortune	do	16 25
24	W. L. Mudd	do	21 25
1881.			
Jan. 18	Evening Star	Advertising	2 25
31	Albert Fortune	Laborer	28 75
31	John Wells	do	3 75
31	Joshua Murphy	do	2 50
31	W. L. Mudd	do	2 50
Feb. 26	Albert Fortune	do	23 75
26	John Wells	do	18 75
26	Joshua Murphy	do	18 75
26	W. L. Mudd	do	22 50
Apr. 1	Albert Fortune	do	30 00
1	John Wells	do	28 75
1	Joshua Murphy	do	28 75
1	W. L. Mudd	do	32 50
May 1	Albert Fortune	do	32 50
1	John Wells	do	30 00
1	Joshua Murphy	do	30 00
1	W. L. Mudd	do	32 50
17	Evening Star	Advertising	2 25
June 1	Albert Fortune	Laborer	33 75
1	John Wells	do	33 75
1	Joshua Murphy	do	33 75
1	W. L. Mudd	do	20 00
15	Conrad Becker	Harness, &c	52 25
25	J. McDermott & Bros	Repairs	30 00
28	Evening Star	Advertising	1 88
30	W. J. Dunnivan, property clerk	Livery of horse	2 50

REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA. 387

DISBURSEMENTS—Continued.

Date.	To whom paid.	For what paid.	Amount.
1881.			
July 1	A. Fortune	Laborer	
1	J. Wells	do	\$32 50
1	Joshua Murphy	do	32 50
1	Shirley Williams	do	32 50
	Total expenditures		1, 338 38

RECAPITULATION.

Total receipts	\$1, 338 26
Total expenditures	1, 338 38
Amount overdrawn	12

THE SICK POOR.

The appropriation for relief of the poor being reduced one-third last year, we were forced to discontinue this very important service for two months; at least we were forced to cease payment of the physicians and furnishing of medicines. The physicians, however, volunteered to continue their services without cost to the District, and their offer was accepted. Had it not been for this action on their part great hardship would have resulted to the poor whom they attended. It was distinctly understood between the department and the physicians that the labor thus performed must be done without hope of fee or reward, and yet it was performed as earnestly and as thoroughly as at any time during the year. In view of these facts I think it would be only just that Congress appropriate a sum sufficient to pay these gentlemen for the services rendered, and I would recommend that this be asked.

An increase in the appropriation, or rather to the amount appropriated in former years, was secured at the last session of Congress.

The following table shows amount of work performed by physicians to the poor, and cost of medicines furnished during the year:

Months.	Patients treated.	White.	Colored.	Visits made.	Office consultations.	Cost of food furnished.	Cost of medicines furnished.
1880.							
July	1, 032	343	689	1, 318	411	\$155 89	\$191 85
August	964	315	649	1, 199	329	223 47	162 50
September	1, 224	496	728	1, 816	340	117 45	292 30
October	1, 338	591	747	1, 843	405	159 23	205 65
November	799	317	482	1, 095	284	} 205 55 {	{ 164 30 {
December	940	329	611	1, 308	267		
1881.							
January	1, 276	396	880	1, 852	357	272 61	274 85
February	1, 344	447	897	1, 896	378	320 00	269 10
March	1, 132	374	758	1, 584	326		141 35
April	1, 094	369	725	1, 660	292		140 50
May	432	135	297	648	176		
June	455	164	291	743	142		
Total	12, 030	4, 276	7, 754	16, 962	3, 707	1, 454 20	2, 136 65

OUR WELL OR PUMP WATER.

A somewhat extensive report upon our pump water was contained in my last annual report; the result of the analysis of one hundred and five samples from as many wells, with an outline of the methods employed in analysis, the objects of search, and the meanings of certain classifications, were there given. The following is submitted as a continuation of that report:

Analysis of pump water in the District of Columbia.

Number.	Location.	Degrees of hardness.	Solid residue.	Organic matter and volatile.	Free ammonia.	Albuminoid ammonia.	Nitrates, nitrites.	Chlorine.	Mineral substance.	Microscopic examinations.	Opinion.
106	Cor. 19th and Pa. ave. n. w.	6	0.314	0.064	Traces.	0.81 M. G.	0.213	0.070	Calcium, magnesium, potassium, sodium, aluminum, silica, carbonic acid, sulphuric acid, chlorine, iron traces.	.....	Still usable, but in danger of pollution.
107	Seaton School.....	6	0.382	0.178	Traces.	Traces.	0.16	0.006	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid.	.....	Good water.
108	East side of Valley st., between Stoddard and Road sts., Georgetown.	4	0.400	0.053	Traces.	Traces.	Traces.	0.010	Calcium magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
109	Cor. 1st and Market sts., Georgetown.	6	0.200	0.025	Traces.	Traces.	0.020	0.030	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
110	Cor. High and Market sts., Georgetown.	3	0.080	0.010	Traces.	Traces.	Traces.	0.010	Calcium, sodium, magnesium, aluminum, silica, carbonic acid, chlorine.	.....	Very good water.
111	Cor. 12th and Pa. ave. s. e.	18	0.818	0.200	0.02 M. G.	0.12 M. G.	0.360	0.482	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	Bacteria, spirillum, flagellata, verticillina, monastyla, quadridentata.	Good water.
112	Cor. 8th and A sts. n. e.	6	0.212	0.064	Traces.	0.08 M. G.	0.140	0.080	Calcium, sodium, magnesium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
113	Cor. 12th and G sts. s. e.	3	0.094	0.020	Traces.	Traces.	0.030	0.050	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
114	Cor. 10th and S. C. ave. n. e.	4	0.294	0.090	Slight traces.	Slight traces.	0.120	0.160	Calcium, magnesium, sodium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
115	Willard's Hotel.....	9	0.254	0.080	0.15	Traces.	0.133	0.070	Calcium, sodium, magnesium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Do.
116	Cor. 2d and C sts. s. e.	5	0.180	0.060	Traces.	Traces.	0.06601	0.070	Calcium, sodium, magnesium, silica, aluminum, potassium, carbonic acid, sulphuric acid, chlorine.	.....	Do.
117	East Capitol and 8th sts	5	0.178	0.060	Traces.	Traces.	0.133	0.040	Calcium, sodium, magnesium, aluminum, silica, carbonic acid, sulphuric acid, phosphoric acid, chlorine.	.....	

118	Cor. 2d and E sts. s. e. . . .	4	0. 183	0. 082	0. 000. 10	0. 000. 05	0. 130	0. 040	Calcium, magnesium, sodium, aluminum, silica, iron traces, carbonic acid, sulphuric acid, chlorine.	Good water.
119	6th st., bet. P and O sts.	6	0. 368	0. 081	0. 000. 75	0. 000. 20	0. 183	0. 080	Calcium, magnesium, sodium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	Unfit for drinking.
120	Bet. L and M and 5th and 6th n. w.	5	0. 240	0. 081	Traces.	0. 000. 05	0. 181	0. 060	Calcium, sodium, magnesium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Good water.
121	14th st., north of L. n. w.	5	0. 213	0. 060	0. 000. 50	0. 000. 09	0. 150	0. 80	Calcium, sodium, magnesium, potassium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Unfit for drinking.
122	5th and Langdon Terrace.	99	0. 526	0. 225	0. 000. 05	0. 000. 20	0. 216	0. 080	Calcium, magnesium, sodium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Do.
123	5th and Langdon Terrace (reanalysis).	99	0. 526	0. 225	0. 000. 04 ^b	0. 000. 15	0. 216	0. 140	Calcium, sodium, iron, aluminum, silica, carbonic acid, magnesium, sulphuric acid, chlorine.	Do.
124	Cor. 6th and Pa. ave. n. w.	4	0. 150	0. 030	Slight traces.	Slight traces.	0. 130	.....	Calcium, sodium, magnesium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Very good water.
125	Cor. 10th and S sts. n. w.	2	0. 100	0. 030	0. 000. 04	0. 000. 08	0. 066	0. 020	Calcium, sodium, magnesium, potassium, aluminum, silica, carbonic acid, sulphuric acid, iron, chlorine.	Good water.
126	Cor. 14th and S sts. n. w.	7	0. 290	0. 060	0. 000. 70	0. 000. 40	0. 008	0. 040	Calcium, sodium, magnesium, aluminum, silica, carbonic acid, sulphuric acid, chlorine, iron.	Abominable; unfit for drinking or any domestic purpose.
127	Cor. 13th and S sts n. w	2	0. 080	0. 016	Slight traces.	Slight traces.	0. 020	0. 025	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	Very good water.
128	Cor. 15th and M sts. n. w.	3	0. 140	0. 000	Slight traces.	Slight traces.	0. 100	0. 040	Calcium, magnesium, sodium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Do.
129	Virginia ave. bet. 21st and 22d sts. n. w.	7	0. 292	0. 090	Slight traces.	Slight traces.	0. 080	0. 043	Calcium, magnesium, sodium, potassium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Do.
130	5th st. bet. P and Q sts. n. w.	7	0. 270	0. 154	Traces.	Traces.	0. 183	0. 080	Calcium, sodium, magnesium, aluminum, potassium, silica, iron, carbonic acid, sulphuric acid, chlorine.	Good water.
131	R st. bet. New Jersey ave. and 5th st. n. w.	2	0. 118	0. 040	Traces.	Traces.	0. 033	0. 040	Calcium, magnesium, sodium, potassium, aluminum, iron, silica, carbonic acid, sulphuric acid, chlorine.	Do.

^a Or parts per 1,000,000.

^b Or 21.3 parts per 100,000.

^c Or 16 parts per 100,000.

^d Or 6 parts per 100,000.

^e Very hard water.

^f From bad origin, filth, or sewage.

^g Hard water.

^h Decreased .01 million part.

ⁱ Decreased .05 million part.

^j Increased 0.060; bad origin.

Analysis of pump water in the District of Columbia—Continued.

Number.	Location.	Degrees of hardness.	Solid residue.	Organic matter and volatile.	Free ammonia.	Albuminoid ammonia.	Nitrates, nitrites.	Chlorine.	Mineral substances.	Microscopic examinations.	Opinion.
132	7th st. bet. M and N sts. n. w. (reanalysis).	5½	0.200	0.080	Traces.	0.000.04	0.083	0.060	Calcium, magnesium, potassium, iron, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	No injurious lives visible.
133	21st st. and New York ave. n. w.	c11	0.540	0.250	Traces.	0.000.05	0.233	0.140	Calcium, sodium, magnesium, iron, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	Infusoria	Still usable, but in great danger of pollution.
134	O st. bet. 4th and 5th sts. n. w.	7	0.306	0.103	0.000.18	0.000.02	0.160	0.130	Calcium, magnesium, potassium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Flagellata, monadina, euplota.	Still usable, but in very great danger of pollution.
135	Cor. 12th st. and Massachusetts ave. n. w.	5	0.360	0.030	Traces.	Traces.	0.120	0.060	Calcium, magnesium, sodium, iron, aluminum, silica, chlorine, carbonic acid, sulphuric acid.	No injurious organized lives visible.	Still good water.
136	Cor. 1st and K sts. n. e. . .	4	0.200	0.108	Traces.	Traces.	0.133	0.010	Calcium, magnesium, sodium, potassium, iron, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Good water.
137	Delaware ave. and H st. n. e.	9	0.514	0.272	0.000.20	0.000.06	0.166	0.120	Calcium, magnesium, sodium, aluminum, silica, iron, carbonic acid, sulphuric acid, chlorine.	Bacteria, vibris, kero- nia, euplota.	Unfit for drinking.
138	19th st. and Boundary, n. w.	4	0.200	0.090	Traces.	0.000.03	0.116	0.030	Calcium, magnesium, sodium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....	Very good water.

a Increased since last year .03 part per million.

b Increased since last year 23 parts per million.

c Hard water.

SANITARY SURVEY BY SQUARES.

It affords me much pleasure to be able to present the following report in detail showing the condition of each square in the two cities. The data here collected and exhibited will prove of much value to the student or statistician inquiring into the sanitary condition of the District of Columbia. The labor involved in collecting this information was performed by the corps of sanitary inspectors during the winter months of 1880-'81. Each square is given by number, and a glance gives you the number and kind of houses thereon, those premises having houses and yards sewered, the number of water-closets, privy-boxes, yards paved, slaughter-houses, cow stables or yards, and hog-pens. In a comparative position are given the deaths occurring on each square during the year, divided according to color, together with a separate statement of deaths from the principal zymotic diseases. Taking this information in connection with that given in the "report of sanitary survey" in my last annual report, I think that they form the most full, complete, and concise sanitary history yet given of any city in this country.

By referring to the totals we find that there are 30,474 houses in the two cities, 15,549 brick, and 14,925 frame; of this number 10,066 are sewered; 13,672 have yards sewered. There are 14,114 water-closets, and 16,492 yards paved. The privy-boxes number 15,886; there are 369 cow-yards or cow-stables, 17 slaughter-houses, and 11 hog-pens within the boundary lines.

A large addition to the value of the report would have been made by securing the population of each square, but our limited time and force would not admit of the attempt at taking such a census. The average number of occupants to each house, according to census of 1880, is 5.25.

Of the total number of squares, 179 were found defective in drainage; 30 below grade; 32 having alley in insanitary condition; 19 containing stagnant water, and 37 having houses in insanitary condition.

According to the assessors' census of 1878, the houses within the limits of the two cities at that time numbered 25,656. According to this showing our buildings have increased 4,818 during the past three years.

WEST WASHINGTON (FORMERLY GEORGETOWN).

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
1	1	2	3													Fair.
*2		1	1													Fair.
3	2	6	8		1	1										Fair.
4	9	3	12		1											
5	18		18													Fair.
6	2		2													
7																
*8																
*9																
*10																
12	4	5	9			1	1	2		1						Fair.
13	6	4	10				1	4		1			2	1	3	Poor.
14	17	13	30	2	2		6	24								Poor.
15	6	7	13					10								
16	13	13	26		7	7	1	25					3		3	Poor.
17	16	5	21					15					3		3	Bad.
18	15	15	30				7	24				1	1	1	2	

* Coal wharf.

WEST WASHINGTON (FORMERLY GEORGETOWN)—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
19	3	22	25				1	17					1		1	Bad.
20	25	9	34	1	2	3	16	32				2	4	4	8	Bad.
21	13	9	22					21				1	2	1	3	Poor.
22	8	8	16					12					1		1	Poor.
23	1	3	4					2								Poor.
24	6	7	13	6	6		3	4								
24	1	1	2													Fair.
25	9	4	13	2	3	3	4	2					1	1	2	Fair.
26	19	12	31	6	9	2	14	21				1	3		3	Fair.
27	24	8	32	2	14	14	18	14				1	2	3	5	Fair.
28	23	3	26	13	13	12	20	13				2	4		4	Fair.
29	25	23	48		13		5	15					1	2	3	Fair.
30	32	11	43	9	21	6	8	16					2		2	Fair.
31	1	10	11					10								Poor.
32	4	13	17	1	1			8				1	2		2	Poor.
33	3		3				3	2				1	2		2	Good.
34	1		1									1	1		1	Good.
35	1	3	4	1	1		1	1								Good.
35	3	5	8				7	7					2		2	Fair.
36	6	12	18	1	4	3	5	9					1		1	Tolerable.
37	40	20	60	4	20	14	10	23				1	5		5	Fair.
38	49	17	66	26	48	30	36	18				2	3	3	6	Good.
39	36	19	55	32	34	15	28	18		2			5		5	Good.
40	13	1	14	3	13	12	13	1					1		1	Fair.
41	19	11	30	17	30	27	22					2	2	1	3	Fair.
42	18	23	41	8	10	22	21	30					1	1	2	Not very good.
43	13	5	18	13	16	9	9	2					1	1	2	Good.
44	5	21	26		3	3	8	22				1	2	2	4	Fair.
44		2	2					1								Fair.
45	2		2	2	2		2									Fair.
47		5	5					5						1	1	Fair.
48	22	21	43	1	19	10	12	14				1	4	1	5	Tolerable.
49	5	12	17	5	5	1	10	12		3			1		1	Fair.
50	21	5	26	15	15		23	12				1	3	1	4	Fair.
51	9	17	26	5	8	7	13	16		2						Good.
52	13	1	14	1	1		8	12					1		1	Bad.
53	1	25	26		1		3	25		3			1		1	Fair.
54																Poor.
55																
56	13	7	20				4	19		4						Poor.
57	4	6	10	2	1	1	8	6					1		1	Good.
58	15	11	26	4	7	9	10	15				1	1	1	2	Not very good.
59	15	3	18	14	14		11	6						2	2	Very good.
60	8	4	12	6	6		12	6				1	1		1	Very good.
61	20	12	32	9	13	2	13	12					1		1	Fair.
62	18	10	28	9	11		20	12		2			5		5	Fair.
63	17		17	17	17		17						2		2	Excellent.
64	7	7	14	5	8	6	13	5					2		2	Fair.
65	10	13	23	8	17	17	21	4		1			3	1	4	Fair.
66	18	4	22	2	6	6	6	15				1	2		2	Fair.
67	1	12	13					13						5	5	Bad.
68	2	12	14					13		2				1	1	
69	5	27	32	3	6	5	19	26		1		1	2	5	7	Poor.
70	9	30	39	2	5	14	18	31					1	3	4	Poor.
71	8	10	18	2	3	3	7	8								Good.
72	12	5	17	5	5	4	6	12					1	1	2	Good.
73	16	4	20	11	11	7	10	5		1			3		3	Good.
74	31	24	55	12	12	3	10	42					4	1	5	Bad.
75	10	17	27	10	10	8	15	17						1	1	Good.
76	14	12	26	2	7	11	14	20					3		3	Fair.
77	5	21	26		1	16	18	8		4						Fair.
78	3	20	23				6	18		7			2		2	Poor.
79																
*80																
*81																
*82																
83	13	3	16	3	4	1	11	12		1		1	2		2	Good.
84	18	23	41		5		18	37		1		1	2	3	5	Defective sewerage.
85	17	16	33	8	8		17	27								Poor.
86	35	14	49	24	29	10	38	15		1		1	3	3	6	Fair.

* Coal wharf.

† Georgetown College.

‡ Vacant.

WEST WASHINGTON (FORMERLY GEORGETOWN)—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
87	30	6	36	29	29	13	35	5					2		2	Good.
88	6	7	13	10	12	11	12	1					1	1	2	Fair.
89	7	12	19	4	4	13	13	16					1	1	2	Fair.
90	8	18	26	1	2	1		16						4	4	Poor.
91	4	14	18					18				1	1	3	4	Not very good.
92	2	33	35	2	2		4	32						3	3	Poor.
93	9	37	46				8	45					2	2	4	
S. 94	10	21	31	6	8	9	12	21								
94	1	1	2					1						1	1	
N. 94	1	14	15					14		1		1		1	1	
95	2	12	14				3	14						2	2	Fair.
96	1	1	2	1	1		1	1					1	1	2	Good.
97	8	4	12	10	11		11	1					1		1	Good.
98	11	6	17	13	15	17	17	2								Good.
99	16	7	23	12	12	10	21	12					1		1	Good.
100	11		11	5	5		9	4					2		2	Good.
101	13	18	31	4	14	9	16	16						1	1	Fair.
102	6	11	17	9	9	9		15		1			1		1	Poor.
103	20	20	40				20	40		1				3	3	Fair.
104	2	5	7				2	7					1	1	2	Fair.
*105																
*106																
107		7	7					7								Good.
108	1	42	43			1	16	41		1			1	3	4	Fair.
109	6	9	15	4	4	3	6	11				1		1	1	Fair.
110	20	45	65	18	20	14	21	43		2		2	1	5	6	Fair.
111	5	5	10	5	5		5	5					1		1	Good.
112	14	4	18	13	13		11	5		1			1		1	Good.
113	2	1	3	2	2			1		1						Good.
114	2		2	1	2	1	2						1		1	Good.
114½	3		3	2	2									1	1	Good.
120	4	26	30					25		2			2	3	5	Poor.
121	3	28	31				7	27		2						Drainage defective.
*122																
*123																
124	1	5	6		1		5	6								Good.
125	1	1	2	1	1			1					1		1	Good.

WASHINGTON.

1	18	13	31	....	1	17	17	29								
2	1	1	2													
3		1	1													
4	9	12	21	5	5	13	13	13				1	1		1	
N. 4		9	9	1	6	6	6	1								
W. 4	6	1	7				1	6					1		1	
5	22	26	48	5	16	23	23	33					5	2	7	
6		10	10			4	3	4					1		1	
7	2		2													
8	4	2	6			1	1									
9	4		4				1									
10		1	1					1								
11		9	9					9					3	1	4	
12	6	5	11				10	11					2		2	
S. 12	1	4	5											1	1	
13	3	26	29				3	29					1	3	4	
14	3	3	6	3	3	3	1	3						1	1	
W. 14	8	5	13				1	12					1		1	
15	10	18	28	5	15	16	24	12		1			3	1	4	
16	15	38	53	3	10	10	28	42		2		3	1	5	6	
17	12	16	28	2	7	7	18	21					1		1	
S. 17		1	1													
18	3		3			1	1	1								
19	2	9	11	1	2	2	2	8								
20		17	17					17					2		2	
†21																
22	1	2	3				1	3								
23	3	2	5				2	5								
W. 23		1	1					1								

*Coal wharf.

† Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
24	14	43	57				19	56		8			3	3	6	
25	2	1	3	2	2	2	2						1		1	
26	9		9	9	9	9	9	2					2		1	
27	15	1	16	14	14	15	14	2					1		1	
28	15	43	58	7	12	11	22	43		2		1	5	6	12	
29	2	12	14		1	1	6	12								
30	8	13	21	1	1		12	20					1	1	2	
31		28	28	5	5	5	2	24				1	1	2	3	
32	7	24	31			2	16	29				1	2	3	5	
33		16	16				3	16						5	5	
Res. 4	4		4	1	1		2									
*35																
36	14	28	42	9	9		8	33		8		1	2	3	5	Very bad condition; without sewerage.
37	14	43	57	3	12	12	22	45				1	2	4	6	
38	6	12	18	3	6	5	8	10					2		2	
39	1		1	1	1	1	1									
40	4	13	17	7	14	16	16	3				1	1		1	
41	2	42	44	1	7	28	32	36				1	2	2	4	
42	3	34	37	8	15	23	18	20					3	1	4	
43	10	10	20	7	9	14	17	10				1	2		2	
44	2	8	10				5	10								
*47																
48	1	2	3					2	1							
49		4	4			1	3	4	2							
50	2	6	8		2	2	4	4					1		1	
51	21	39	60		4	8	20	50		2		2	4	4	8	
52	14		14	14	14	14	14						1		1	
*53																
54	7	28	35	8	10	21	22	27					2	2	4	
55	14	32	46	14	24	35	36	23				1	2	2	4	
56	5	47	52	4	10	26	33	41		2				3	3	
57	10	2	12	10	10	10	10	3								
58	2	1	3	1	1	1	2	1								
59	2	27	29				2	29				1		2	2	
60	4	8	12				4	12						1	1	
61	1	6	7					7								
62		15	15				1	15		2		1	1	2	3	
63		3	3					3				1		1	1	
65	1	22	23					23				2	1	8	9	
66	1		1		1	1	1					1	1		1	
67	1	11	12				1	11				1		1	1	
68	2	16	18				3	17				1	2	2	4	
69		20	20					20				1		2	2	
70	5	29	34	3	6	6	2	28					2	3	5	
71		2	2					2								
72	8	41	49	12	12	19	10	37					2	1	3	
73	16	21	37	8	11	24	26	23		1		2	2	3	5	
74	26	23	49	7	17	20	22	31				1	1	4	5	
75	34	22	56	24	39	43	40	17					4	1	5	
76	9	26	35	17	16	14	8	19					2		2	
77	34	15	49	22	35	39	48	17				1	6	4	10	Good.
78	24	6	30	22	26	22	23	8					1		1	Good.
79	27	9	36	18	23	27	13						1		1	
80	12	26	38	12	12	14	26		1				2	2	4	Fair.
81	15	18	33	1	1	2	3	31		1		1		6	6	Fair.
82		1	1					1		1						Fair.
83	9	2	11					11						1	1	Fair.
84	1	11	12					12						3	3	Fair.
85	2	28	30	2	4	9	8	26						1	1	Not very good.
86	34	8	42	28	33	33	30	8					2		2	Very good.
87	2	9	11					11				1		1	1	Fair.
E. 87		14	14					14				2		3	3	Drainage bad.
E. 88	5	26	31					24		2		4	5	2	7	Not very good.
E. 88																
89		1	1					1								
90	1	18	19	1	1	6	3	18					1		1	Good.
91		1	1					1								Good.
92		2	2					2		2						Good.
*93																
94	7	5	12	5	9	11	6	3					2		2	Good.
*95																

* Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.	
	Brick.	Frame.	Total.										White.	Colored.	Total.		
96	6		6	6	12	6	6									Good.	
97	10	8	18	9	11		11	9								Good.	
99	22	25	47	11	11	25	28	37				1	3	5	8	Fair.	
100	10	63	73	6	14	31	7	59		3		4	2	17	19	Drainage defective.	
101	39	8	47	38	35	38	36	16				1	4		4	Very good.	
102	27	9	36	26	22	30	26	12						1	1	Very good.	
103	16	5	21	21	20	19	19	3								Very good.	
104	11	11	22	8	8	11	9	12				1	1	4	5	Drainage defective.	
S. 104	1	17	18	3	2	2	3	16				3	1	8	9	Drainage defective.	
105	32	5	37	26	29	28	28	7								Very good.	
106	26	9	35	23	23	25	25	12					2		2	Very good.	
107	25	34	59	18	16	13	11	41				1	2	5	7	Very good.	
*109																	
110	4	34	38	13		7	2	38		4			3	3	6	Bad.	
111	1	15	16	16	11	16	14	5								Good.	
112	3	6	9	7	6	8	5	3					1		1	Good.	
113	1		1													Good.	
114	6	3	9	6	6	6	7	3		1			1		1	Very good.	
115	11		11	11	11	11	11						1		1	Good.	
116	18	30	48	20	18	25	13	30				2	1	5	6	Defective sewerage.	
117	43	36	79	21	21	44	11	58				1	2	10	12	Bad.	
118	23	4	27	19	21	18	19	5					1	1	2	Good.	
119	18	8	26	18	18	13	14	6				1	1		1	Good.	
120	16	12	28	19	20	20	21	8				1	6		6	Good.	
121	14		14	13	13	13							2		2	Good.	
122	7	23	30	9	12	15	18	18				1		2	2	Drainage defective.	
123	6	8	14	4	5	4		8				1	1	2	3	Good.	
124	1	12	13				1	12		1		1	1	1	2	Drainage defective.	
125		1	1					1								Bad.	
126	25	19	44	27	30	25	21	15				2	3	1	4	Good.	
127	45	7	52	44	48	49	47	5					3	1	4	Good.	
129		3						3								Bad.	
131	6	29	35	4	6	6	10	29		2			1	2	3	Good.	
132	4	31	35	3	2	4	3	32						1	1	Good.	
133	1	24	25	2	20	15	12	5		1		2	1	5	6	Fair.	
134	15	9	24	20	20	19	19	4		1			3		3	Fair.	
*135																	
136	1	1	2	1	1	1	1	1								Defective drainage.	
137	5		5	5	5	5	5									Good.	
138	9		9	9	9	9	9					1	1		1	Excellent.	
139	12		12	12	12	12	12						1		1	Good.	
140	41	58	99	26	30	49	23	64				1	1	7	8	Bad.	
141	29	7	36	24	23	25	19	9					1	3	4	Good.	
142	21	4	25	21	21	21	16	4					2		2	Good.	
143	5	2	7	5	5	5	4	1					2		2	Good.	
144		19	19	1				19				3		4	4	Defective drainage.	
145		3	3					3								Bad.	
146		8	8					3								Bad.	
150	29		29	9	9			20								Bad.	
151	1	10	11	3	3		11	8								Bad.	
152	11	25	36	12	12	12		25						3	3	Bad.	
*153																	
*154																	
155																	
156	1		1	1	1	1	1									Fair.	
157	16	13	29	17	16	16	16	13								Good.	
158	6	19	25	6	7	9	7	18					2	1	3	Fair.	
159	19		19	19	19	19	19					1	2		2	Good.	
160	4	2	6	5	5	4	4	1				1	2		2	Good.	
161	25	15	40	20	23	17	16	17					1	2	3	Bad.	
162	14		14	14	14	14	14						1	2	3	Fair.	
163	26	48	74	16	18	17	10	51					2	8	10	Drainage defective.	
164	28		28	28	28	28	28							1	1	Good.	
165	12	2	14	14	14	14	14						2		2	Good.	
166	37	9	46	32	38	32	26	8				1	6		6	Drainage defective.	
167	19		19	19	19	19	19						3		3	Good.	
168	30	2	32	24	27	28	23	4				1	2		2	Good.	
169	31		31	27	29	25	17	1					1		1	Good.	
170	25	8	33	21	23	23	19	10					1	5	6	Plumbing and sewerage defective.	
171	3	18	21		4	8	4	18						2	2	Bad.	

* Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.	
	Brick.	Frame.	Total.										White.	Colored.	Total.		
172	3	12	15	2	2	3		13						3	3	Bad.	
173	2		2					2								Bad.	
S. 173	1		1					1								Fair.	
174		18	18	3	2	2		16				1	1	1	2	Not good.	
175	1		1		1											Defective drainage.	
176	12	6	18	8	5	8		10						1	1	Defective drainage.	
N. 177	15		15	15	15	9	1									Defective drainage.	
S. 177	18	5	23	18	18	1		5						1	1	Good.	
*178														1	1		
179	33	12	45	15	28	28	14	17						2	2	Fair.	
180	29	36	65	45	58	59	54	5						2	2	Good.	
181	8	8	16	8	9	6	4	7								Fair.	
S. 181	16	13	29	7	11	14	7	18						1	3	Defective drainage.	
182	13	15	28	14	15	18	7	12						1		Defective drainage.	
Triangle	1	1	2	1	1			1								Good.	
Triangle	1	1	2	1	1	1	1	1								Excellent.	
183	31	50	81	23	16	25	11	60						2	4	6	Bad.
184	17	15	32	6	13	18	7	19									Good.
185	9	3	12	9	9	9	9	1				1	1		1		Good.
186	2		2	2	2	2	2							1		1	Good.
188																	
*189																	
190	54		54	54	54	54	54							1		1	Good.
191	29		29	29	29	29	29							1		1	Bad.
192	10	1	11	10	10	10	10	1									Drainage defective
193	33		33	33	33	22	23							1		1	Good.
194	28	19	47	34	37	39	38	10						1	3	4	Good.
N. 195	1	1	2	1	1	1	1	1									Good.
S. 195	12	13	25	12	19	23	9	6							1	1	Good.
Triangle	1		1	1	1	1	1										Good.
Triangle	5		5	5	5	5	5							1		1	Good.
196	3	24	27	3	5	11	8	23						2	4	6	Good.
197	16	70	86	11	18	30	17	66				1	2	15	17		Bad.
198	15	21	36	12	18	25	23	18				1		5	5		Good.
199	31	1	32	30	30	30	29	2				2	3	1	4		Good.
200	11		11	11	11	11	5							1		1	Good.
202	9	2	11	6	8	5	5	3		1					1	1	Good.
203	6	1	7	7	7	7	6	4									Good.
204	10		10	10	10	10	8							1		1	Defective drainage.
205	15	10	25	15	16	12	10	10				1	1	2	3		Defective drainage.
206	44	16	60	55	55	24	23	5				2	3	3	6		Good.
207	47	11	58	49	53	48	48	6						2	2	4	Good.
208	52		52	52	52	33	50	25				1	9		9		Good.
209	54	70	124	22	40	59	43	84		1				3	9	12	Very bad.
210	14	15	29	17	17	17	13	11						2	1	3	Good.
211	39	22	61	24	26	39	24	35				1		2	6	8	Bad.
212	34	8	42	35	34	36	33	8						2	5	7	Good.
213	10	8	18	12	16	14	12	2									Good.
214	6	46	52	2	8	17	9	24				2	2	7	9		Fair.
215	8	6	14	11	11	10	6	3						1		1	Good.
216	12	4	16	10	14	15	10	2									Good.
217	23		23	23	23	17	17							2	1	3	Good.
218	25	13	38	33	35	36	23	2									Good.
219	11	4	15	12	13	12	11	1									Good.
220	17	12	29	18	21	18	20	9						1		1	Good.
221	19	4	23	18	19	18	17							1		1	Good.
222	20	1	21	20	20	18	18	1							1	1	Good.
223	17	3	20	16	16	10	10	3						2	1	3	Good.
224	19	1	20	18	18	12	12	3					1	1		1	Good.
225	11		11	11	11	10	10							1		1	Good.
226	15	5	20	15	17	10	4	2					1	3		3	Bad.
227	14	14	28	13	13	17	16	15					1	2		2	Good.
228	14	10	24	3	16	16	16	8									Bad.
229	2	7	9	1	2	1	2	7							1	1	Bad.
230	1	7	8			1		6						1	3	4	Fair.
231	4	9	13	1	1	1	5	12		1							Good.
232	1		1				1	1									Good.
233		3	3					3									Fair.
234	60	5	65	39	40	46	28	25		1			2	4	3	7	Fair.
*235																	Defective drainage.
236	27	13	40	24	27	26	32	12					2	7		7	Defective drainage.
237	5		5	5	5	5	5							2		2	Defective drainage.

* Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
238	53	21	74	28	35	18	25	38				1	2	8	10	Defective drainage.
239	26	.....	26	26	26	13	21	.....				.....	1	.....	1	Defective drainage.
240	63	.....	63	62	62	33	62	1				.....	5	.....	5	Good.
241	36	7	43	36	36	32	29	7				2	3	1	4	Good.
N. 242	2	8	10	9	10	10	9	.....				1	1	.....	1	Good.
S. 242	28	2	30	27	27	27	27	1				.....	1	.....	1	Good.
243	28	7	35	24	34	34	28	1				.....	4	.....	4	Good.
Triangle	1	.....	.....	.....	.....	.....	.....	.....				.....	.....	.....	.....	Excellent.
245	32	5	37	27	32	31	32	5				.....	2	2	4	Good.
Triangle	3	3	6	1	5	4	5	1				.....	.....	.....	.....	Good.
247	41	26	67	45	47	51	52	20				.....	4	2	6	Bad.
248	32	8	40	33	33	33	30	7				1	6	1	7	Good.
250	45	12	57	47	49	46	44	8				1	10	.....	10	Very good.
251	6	.....	6	6	6	5	6	.....				.....	1	.....	1	Excellent.
252	60	10	70	47	54	40	40	17				1	2	2	4	Very good.
253	41	8	49	41	43	41	39	6				.....	2	2	4	Very good.
254	44	.....	44	31	36	20	19	5				2	5	1	6	Bad.
255	14	2	16	2	11	9	8	4				.....	4	2	3	Good.
256	11	10	21	9	14	10	6	7				.....	.....	.....	.....	Not very good.
257	9	24	33	7	10	28	15	22				1	1	2	3	Defective drainage.
258	26	19	45	8	19	13	2	25				1	4	4	8	Bad.
259	2	2	4	.....	1	.....	.....	1				.....	.....	.....	.....	Fair.
260	1	.....	1	1	1	.....	.....	.....				.....	.....	.....	.....	Fair.
263	32	24	56	38	36	51	45	20		1		.....	7	.....	7	Fair.
264	33	24	57	48	46	50	48	11				1	4	.....	4	Good.
265	18	18	36	16	16	26	26	20				2	5	.....	5	Fair.
266	7	13	20	8	8	12	12	12				1	1	.....	1	Fair.
267	5	16	21	3	3	12	18	18				1	9	1	10	Fair.
268	5	19	24	10	10	11	12	14				.....	1	.....	1	Fair.
269	4	.....	4	1	1	2	3	3				.....	.....	.....	.....	Fair.
*270	.....	.....	.....	.....	.....	.....	.....	.....				.....	.....	.....	.....	
271	.....	3	3	.....	.....	.....	.....	3				1	.....	2	2	Defective drainage.
272	1	.....	1	.....	1	1	1	.....				.....	.....	1	1	Good.
273	2	2	4	.....	.....	.....	2	4				.....	.....	1	1	Bad.
274	46	2	48	.....	18	.....	18	30				1	.....	6	6	Fair.
275	12	14	26	9	10	10	12	16				.....	.....	.....	.....	Defective drainage.
276	26	12	38	25	25	27	27	13				.....	1	7	8	Defective drainage.
277	15	24	39	7	7	7	12	32				2	.....	7	7	Fair.
Triangle	6	.....	6	6	6	6	6	.....				.....	1	.....	1	Good.
278	18	12	30	17	25	26	26	5				.....	2	.....	2	Defective drainage.
279	19	20	39	13	23	28	28	16				.....	.....	.....	.....	Very good.
280	29	8	37	29	36	33	37	1				.....	4	1	5	Very good.
281	30	22	52	34	42	42	29	10				.....	.....	4	4	Defective drainage.
282	9	20	29	8	11	17	12	18				.....	4	1	5	Good.
283	19	6	25	17	20	19	20	5				1	1	3	4	Good.
284	15	2	17	16	17	17	17	.....				.....	6	.....	6	Good.
285	30	2	32	29	30	30	31	2				.....	1	.....	1	Excellent.
286	26	14	40	24	33	36	19	9				1	6	3	9	Bad.
287	20	6	26	19	25	15	11	.....				.....	.....	.....	.....	Very good.
288	48	13	61	41	52	49	47	11				1	7	1	8	Defective drainage.
289	35	5	40	30	33	27	20	7				1	2	.....	2	Defective drainage.
290	38	6	44	33	39	38	33	5				1	1	2	3	Defective drainage.
291	29	1	30	24	26	23	21	3				.....	.....	.....	.....	Bad.
292	19	2	21	14	21	9	3	.....				.....	.....	.....	.....	Defective drainage.
293	43	9	52	16	38	31	29	13				.....	2	3	5	Bad.
294	11	.....	11	6	11	5	.....	.....				.....	2	.....	2	Very good.
295	3	1	4	2	2	.....	.....	1				.....	.....	.....	.....	Very good.
296	25	44	69	39	39	50	48	30		1		4	6	1	7	Fair.
297	15	35	50	28	28	29	33	22				.....	.....	1	1	Fair.
298	5	.....	5	.....	.....	5	5	.....				.....	.....	.....	.....	Good.
299	14	9	23	5	5	9	10	18				1	1	.....	1	Good.
300	1	.....	1	.....	.....	.....	.....	1				.....	1	.....	1	Fair.
302	3	42	45	1	4	14	11	41				.....	1	4	5	Bad.
303	15	20	35	4	17	22	12	18				.....	.....	2	2	Good.
304	5	1	6	.....	2	2	1	4				.....	.....	.....	.....	Defective drainage
305	12	12	24	2	5	8	5	19				.....	.....	2	2	Bad.
306	48	4	52	35	35	13	14	8				1	2	.....	2	Good.
307	3	14	17	1	1	.....	.....	16				1	2	1	3	Bad.
308	18	.....	18	18	17	.....	18	.....				.....	1	.....	1	Good.
309	6	39	45	1	3	7	6	42				4	1	9	10	Bad.
310	13	5	18	5	5	5	5	14				.....	.....	2	2	Fair.
311	.....	3	3	.....	.....	.....	.....	3				.....	.....	.....	.....	Good.

* Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
312	10	...	10	10	10	10	10	...	...	...	...	...	...	1	1	Good.
313	18	22	40	17	18	13	17	20	...	...	...	1	...	...	10	Good.
314	20	...	20	20	20	20	20	5	...	...	...	1	...	...	...	Good.
315	20	10	30	23	24	24	26	5	...	...	...	...	...	...	...	Good.
316	27	3	30	27	25	27	27	5	...	...	...	...	...	...	...	Good.
317	12	26	38	11	16	24	21	19	...	...	...	2	3	...	...	Defective drainage.
318	14	5	19	16	17	19	19	3	...	...	...	...	2	...	...	Good.
319	32	14	46	35	44	41	45	1	...	...	...	...	3	...	...	Good.
320	25	4	29	21	24	19	18	1	...	...	...	...	2	...	...	Defective drainage.
321	28	2	30	23	26	20	16	2	...	...	...	1	6	2	...	Good.
322	28	...	28	11	18	17	10	10	...	...	...	...	...	...	...	Defective drainage.
323	17	...	17	5	9	10	6	7	...	...	...	...	...	1	1	Bad.
324	18	1	19	5	9	6	7	8	...	...	...	...	3	...	3	Defective drainage.
325	5	13	18	10	10	14	16	8	...	...	...	...	2	...	2	Good.
326	13	4	17	17	17	17	17	...	...	...	...	...	...	...	...	Very good.
327	14	16	30	24	24	24	26	8	...	...	...	...	3	...	3	Good.
328	5	7	12	3	3	10	10	9	...	...	...	1	3	...	3	Fair.
329	1	3	4	...	...	...	...	4	...	...	...	...	...	...	...	Good.
330	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
331	4	30	34	...	...	...	...	34	...	...	...	...	...	5	5	Bad.
332	8	8	16	1	1	...	...	16	...	...	...	...	1	3	4	Defective drainage.
333	10	25	35	9	14	26	11	21	...	...	...	3	4	3	7	Fair.
334	6	7	13	7	7	1	...	6	...	...	...	...	...	...	...	Fair.
Triangle	7	7	14	7	11	11	8	3	...	...	...	...	1	...	1	Good.
335	16	23	39	20	39	37	32	...	...	...	...	1	...	2	2	Good.
336	3	18	21	2	7	9	3	14	...	...	...	1	...	...	5	Defective drainage.
Triangle	1	4	5	...	...	...	...	5	...	...	...	...	...	...	...	Bad.
337	6	18	24	4	12	12	12	12	...	...	...	1	1	4	5	Defective drainage.
338	28	9	37	13	31	31	28	4	...	...	...	...	4	...	4	Good.
339	25	1	26	26	26	22	25	...	...	...	...	...	1	...	1	Good.
340	29	32	61	28	29	28	22	32	...	...	...	1	5	4	9	Good.
341	23	14	37	18	27	30	28	9	...	...	...	...	1	2	3	Good.
342	24	4	28	22	28	22	21	...	...	...	...	...	5	...	5	Good.
343	14	19	33	9	16	13	11	17	...	...	...	1	1	1	2	Defective drainage.
344	26	4	30	27	30	27	27	...	...	...	...	...	...	2	2	Good.
345	28	12	40	33	35	32	30	4	...	...	...	1	6	2	8	Good.
346	16	...	16	10	12	9	7	4	...	...	...	...	1	...	1	Good.
347	30	...	30	23	29	22	14	1	...	...	...	2	4	...	4	Good.
348	31	...	31	27	29	25	24	3	...	...	...	...	5	...	5	Not good.
349	14	1	15	8	11	4	4	4	...	...	...	2	4	...	4	Defective drainage.
350	15	3	18	11	11	...	1	6	...	...	...	...	1	...	1	Defective drainage.
N. 351	6	2	8	6	6	6	6	2	...	...	...	...	...	...	...	Good.
351	15	12	27	9	9	9	21	18	...	...	...	1	4	1	5	Bad.
352	11	...	11	11	11	11	11	1	...	...	...	...	...	...	...	Good.
353	26	21	47	16	16	24	39	31	...	...	...	...	3	3	6	Defective drainage.
354	7	14	21	10	10	14	21	11	...	...	...	...	1	...	1	Fair.
355	7	1	8	3	3	4	4	6	...	...	...	1	1	...	1	Defective drainage.
356	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
357	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
358	4	21	25	5	4	5	10	21	...	...	...	...	2	7	9	Bad.
359	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	Good.
360	2	...	2	2	2	2	2	...	...	...	...	...	...	...	...	Good.
361	29	12	41	36	36	36	37	5	...	...	...	3	7	1	8	Good.
362	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
363	34	1	35	34	34	34	34	1	...	...	...	3	3	3	6	Good.
364	59	9	68	38	40	52	53	27	...	...	...	...	1	10	11	Fair.
365	86	1	87	77	85	85	78	22	...	...	...	2	4	...	4	Good.
366	64	35	99	64	64	64	64	2	...	...	...	...	4	1	5	Good.
367	28	53	81	14	35	37	37	42	...	...	...	3	5	15	20	Fair.
368	65	47	112	26	44	47	55	71	...	...	...	3	2	14	16	Bad.
369	59	20	79	56	64	74	75	15	...	...	...	3	5	3	8	Good.
370	13	29	42	15	31	39	37	11	...	...	...	...	2	1	3	Good.
371	27	4	31	23	30	30	30	...	...	...	...	...	2	1	3	Good.
372	17	16	33	15	24	25	21	5	...	...	...	1	1	3	4	Good.
373	37	16	53	42	47	49	50	6	...	...	...	...	4	...	4	Good.
374	51	11	62	41	54	52	57	9	...	...	...	2	9	...	9	Good.
375	52	3	55	49	54	46	47	1	...	...	...	...	1	...	1	Good.
376	17	1	18	13	18	10	15	...	...	...	...	...	1	...	1	Good.
377	48	10	58	43	57	50	51	5	...	...	...	1	3	1	4	Good.
378	82	3	85	36	70	47	52	16	...	...	...	3	3	1	4	Good.
379	26	...	26	25	26	3	4	...	...	...	...	1	1	...	1	Good.
380	21	2	23	17	18	...	4	1	...	...	...	...	...	...	...	Good.

Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
381	23	...	23	13	17	7	7	...	...	...	...	1	1	...	1	Good.
382	19	...	19	4	18	3	12	...	...	...	...	...	...	...	...	Good.
383	8	9	17	4	4	4	17	13	...	...	...	1	2	...	2	Defective drainage.
384	16	...	16	16	16	16	16	...	...	...	...	...	1	...	1	Good.
385	18	8	26	19	19	19	24	7	...	...	...	...	2	...	2	Fair.
386	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
387	21	33	54	17	17	29	25	37	...	...	...	2	3	1	4	Fair.
388	14	41	55	2	2	2	14	55	...	...	...	2	...	12	12	Fair.
389	11	38	49	...	...	...	11	49	...	...	...	...	1	3	4	Fair.
390	3	15	18	4	4	4	9	14	...	...	...	...	1	2	3	Fair.
391	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	Fair.
393	7	15	22	4	14	15	12	7	...	1	...	...	2	2	4	Good.
394	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
395	25	7	32	10	27	28	30	5	...	1	...	1	2	3	5	Good.
N. 396	1	...	1	...	...	...	...	...	...	...	...	1	1	...	1	Good.
S. 396	16	4	20	14	16	13	14	5	...	...	...	...	2	1	3	Good.
397	22	23	45	5	34	37	43	11	...	...	...	...	3	1	4	Good.
398	21	10	31	10	30	30	30	1	...	...	...	1	4	...	4	Good.
399	30	22	52	8	48	44	46	4	...	...	...	1	4	1	5	Good.
400	42	23	65	24	50	57	59	15	...	...	...	...	1	1	2	Good.
401	17	27	44	21	33	42	38	10	...	...	...	...	1	1	2	Good.
402	24	3	27	23	26	25	26	1	...	...	...	...	5	...	5	Good.
403	27	13	40	20	28	32	35	11	...	...	...	...	1	...	1	Good.
404	13	9	22	18	19	21	20	3	...	...	...	...	1	...	1	Good.
405	29	12	41	21	32	35	33	9	...	...	...	2	2	...	2	Good.
406	15	1	16	14	15	12	7	1	...	...	...	2	4	...	4	Good.
407	19	1	20	8	23	13	7	...	...	...	...	1	1	1	2	Good.
408	17	...	17	15	17	2	2	...	...	...	...	1	1	1	2	Good.
409	2	3	5	2	2	4	4	3	...	...	...	...	...	1	1	Fair.
410	12	...	12	12	12	12	12	...	...	...	...	2	2	...	2	Good.
411	18	38	56	15	15	17	34	41	...	1	...	...	3	9	12	Defective drainage.
412	6	11	17	1	1	3	8	16	...	...	...	1	2	2	4	Fair.
413	3	17	20	...	1	6	16	19	...	...	...	1	1	...	1	Good.
414	3	24	24	2	2	3	8	22	...	...	...	1	1	3	4	Defective drainage.
415	...	1	1	...	...	...	...	1	...	...	...	...	...	...	...	Fair.
S. 415	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
416	10	21	31	1	16	19	17	15	...	1	...	...	3	1	4	Defective drainage.
417	20	26	46	6	35	31	20	11	...	...	...	...	3	1	4	Defective drainage.
419	28	26	54	8	37	41	35	17	...	...	...	1	1	...	1	Fair.
Triangle.	12	...	12	...	12	12	12	...	...	...	...	...	...	...	...	Good.
420	21	3	24	13	23	23	24	1	...	...	...	1	3	...	3	Good.
421	25	1	26	20	24	24	25	2	...	...	...	...	2	1	3	Good.
422	19	2	21	6	16	15	14	3	...	...	...	...	1	...	1	Fair.
423	19	4	23	7	23	18	18	...	...	...	...	...	...	...	...	Good.
424	27	31	58	11	52	47	45	6	...	...	...	...	4	...	4	Defective drainage.
425	15	43	58	7	44	51	45	14	...	...	...	3	6	1	7	Good.
426	27	14	41	24	41	31	31	...	...	...	...	1	3	...	3	Good.
427	23	9	32	10	28	26	25	4	...	...	...	...	3	2	5	Good.
428	23	1	24	13	23	16	20	1	...	...	...	...	...	...	...	Good.
429	38	...	38	21	35	33	33	3	...	...	...	...	4	...	4	Good.
† Res. 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Good.
430	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Good.
431	21	3	24	16	19	15	16	15	...	...	...	...	2	1	3	Good.
432	20	...	20	15	20	5	5	...	...	...	...	...	1	1	2	Good.
† Res. 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
433	12	3	15	7	7	7	6	7	...	...	...	...	1	1	2	Good.
434	11	1	12	11	11	12	12	1	...	...	...	...	4	2	6	Fair.
435	23	27	50	19	19	20	40	31	...	1	...	1	1	...	1	Good.
436	4	22	26	10	10	14	20	16	...	...	...	...	3	...	3	Good.
437	16	17	33	16	16	26	32	17	...	...	...	1	...	...	...	Good.
438	2	23	25	5	5	13	20	20	...	...	...	...	2	...	2	Good.
439	1	14	15	1	1	1	1	14	...	...	...	...	3	...	1	Bad.
S. 439	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
440	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
441	35	63	98	5	39	61	44	60	...	1	...	1	7	6	13	Bad.
442	47	40	87	1	50	56	30	38	...	...	...	1	2	8	10	Defective drainage.
444	25	6	31	26	27	26	26	4	...	...	...	1	1	...	1	Fair.
445	21	6	27	16	17	16	24	12	...	...	...	...	1	...	1	Good.
446	16	...	16	16	16	16	16	...	...	...	...	...	1	1	2	Good.
447	51	48	99	8	71	71	70	29	...	...	...	...	7	5	12	Fair.
448	57	35	92	23	57	58	58	35	...	1	...	1	9	6	15	Fair.
449	59	42	101	16	49	47	47	52	...	...	...	1	4	9	13	Defective drainage.

*Vacant.

†U. S. Patent Office.

‡Washington Market.

400 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.	
	Brick.	Frame.	Total.										White.	Colored.	Total.		
450	18	30	48	10	31	25	25	15				1	5	1	6	Good.	
451	17	26	43	5	27	27	32	16					2		2	Good.	
452	34	16	50	28	40	34	39	10						1	1	Good.	
453	56	22	78	34	61	52	42	17				1	4	2	6	Good.	
454	74	12	86	34	65	41	46	19				1	5	8	13	Defective drainage.	
455	44	6	50	40	42	38	39						7		7	Good.	
456	37	3	40	37	40	38	38					1	4		4	Good.	
457	56	6	62	37	52	48	39	10				1	3	2	5	Good.	
458	29	1	30	27	27	19	2						3		3	Good.	
459	18		18	16	16	5	5	1								Good.	
460	12		12	12	12								1		1	Good.	
461	31		31	27	27	4	4									Defective sewerage.	
462	27	28	55	45	45	50	50	11					1		1	Very good.	
463	8	7	15	12	12	12	12	3					1		1	Very good.	
South 463	11	12	23	2	2	14	15	21					1		1	Fair.	
464	5	7	12	8	8	8	10	5					1		1	Very good.	
465	40	61	101	44	44	57	83	57				1	10	3	13	Fair.	
466	25	11	36	30	30	30	33	7					3	1	4	Very good.	
467	38	16	54	54	54	54	54					1	4		4	Very good.	
468	35	27	62	25	25	44	51	37						7	7	Fair.	
469	28	35	63	26	26	38	38	37		7			4	2	6	Bad.	
470	5	12	17	2	2	8	6	15		1						Fair.	
471	1	40	41	1	1	14	10	40		2			3	5	8	Deficient drainage.	
West 471																	
472	1	1	2				2	2								Good.	
473		6	6					6								Good.	
475	19	10	29	8	27	12	12	10					2		2	Good.	
South 475	10	11	21	15	20	20	20	20	1				3		3	Good.	
East 475	5	1	6	4	6		6									Good.	
476	12		12	4	10	9	11	2								Good.	
477	10	30	40	1	23	25	21	17					2	2	4	Good.	
478	17	16	33	11	20	30	20	13					3		3	Good.	
479	11	4	15	1	11	11	11	2					2		2	Good.	
480	7	41	48	3	31	36	31	16		1		1	2	4	6	Good.	
481	29	16	45	12	38	40	40	7					2		2	Good.	
Triangle 482																	
483	1		1	1												Good.	
484	4	1	5		1									1	1	Fair.	
485	17	18	35	12	32	31	31	2				1	3	1	4	Good.	
486	20	3	23	17	19	19	20	3				1	3		3	Good.	
487	18	26	44	15	38	35	35	5					4		4	Good.	
488	21	8	29	7	21	19	22	10								Good.	
489	29	4	33	23	33	25	27						2		2	Good.	
490	35		35	35	35	35	35						2		2	Good.	
491	37	1	38	30	36	24	24	1				1	1	1	2	Good.	
491 B	31		31	21	31	19	19					3	5	2	7	Good.	
D 492	50		50	33	43	39	31	4				2	7	1	8	Good.	
492	34	27	61	46	46	54	56	15					4		4	Very good.	
493	44	26	70	45	45	53	57	25		2			2	2	4	Good.	
494	20	18	38	21	21	21	21	7					1	3	4	Good.	
494	32	55	87	40	40	63	57	48		1		4	6	6	12	Fair.	
495	20	5	25	8	8	11	21	17					2		2	Drainage defective.	
496	38	36	74	50	50	70	70	24				3	8		8	Good.	
497	27	30	57	41	41	56	56	16				1	1	1	2	Good.	
498	38	15	53	13	13	17	39	40				1	4	3	7	Fair.	
499	25	26	51	4	4	20	28	47				1	3	2	5	Fair.	
500	18	50	68	8	8	14	39	60		2			4	3	7	Bad.	
501	19	52	71	5	5	16	36	66		2		2	4	5	9	Drainage defective.	
502	38	36	74	26	26	34	61	48		2			6		6	Not very good.	
503	23	16	39	3	3	13	21	36				1	3		3	Fair.	
Triangle 504																	
504	5	3	8	6	6	6	6	2								Good.	
507	5	6	11	3	8	9	5	3					2		2	Good.	
508	13	10	23		5	4	17	18					1		1	Good.	
509	13		13	1	7	3	8	6					4		4	Good.	
E. 509	46	10	56	1	49	43	43	7				1	1		1	Good.	
510	55	29	84	2	39	39	41	44				1	7	5	12	Fair.	
511	41	25	66	16	40	38	48	24		3		1	4	1	5	Drainage defective.	
512	40	74	114	3	46	60	62	72				2	4	8	12	Fair.	
513	46	97	143	22	48	56	63	95		1		6	5	15	20	Bad.	
514	39	30	69	32	57	62	60	12					3	2	5	Fair.	
N. 515	21	48	69	16	36	60	46	33				2	4	1	5	Drainage defective	

* Vacant.

Lumber yard

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
S. 515	46	20	66	5	28	33	35	36				1	2		810	Drainage defective.
516	56	53	109	24	83	83	83	35				2	8	6	14	Fair.
516	9	50	59	8	49	49	50	10				2	6		6	Good.
517	28	38	66	15	55	51	52	11				1	5	2	7	Good.
518	76	55	131	42	65	66	76	71				2	8	6	14	Bad.
519	1		1					1						1	1	Fair.
520	2		2				1	2								Fair.
521	12	4	16			1	1	14						1	1	Fair.
522	11	2	13				10	13						1	1	Drainage defective.
523	31	19	50	11	27	35	39	24					1	1	2	Good.
524		7	7		1	7	5	6					1		1	Good.
525	16	26	42	1	23	22	20	18						1	1	Good.
526	3	26	29	1	16	26	21	14						5	5	Good.
527	33	10	43	4	29	26	37	14					2	1	3	Good.
528	24	4	28	11	27	25	25	1					1	3	4	Good.
529	22	29	51	7	36	37	37	15				1	1	2	3	Good.
530	14	12	26	17	21	21	20	7					1		1	Good.
531	15	2	17	14	15	14	14	2					1		1	Good.
532	33	1	34	32	33	33	33	1					2		2	Good.
533	46	2	48	48	46	46	46	2				1	3		3	Good.
Res. 10	66		66	50	51	50	50	18		3		3	6	4	10	Fair.
A.	46	4	50	40	44	43	42	5				2	9	1	10	Fair.
C.	19	24	43	1	1	6	12	42					2	3	5	Defective drainage.
534	58	73	131	31	31	52	61	104				3	7	10	17	Bad.
535	35	43	78	16	16	34	40	62				1	4	7	11	Bad.
536	28	20	48	1	1	1	24	47					5		5	Bad.
537	37	27	64	24	24	30	51	40		3			8		8	Bad.
538	17	76	93	22	22	43	35	71				2	1	8	9	Fair.
539	10	76	86	9	9	40	32	77				4	2	14	16	Bad.
540	10	69	79	8	8	19	22	71		1		2	2	16	18	Bad.
541																
542																
543	4	69	73	5	5	21	16	67		2		1	2	6	8	Bad.
544	6	15	21	1	1	5	5	20						2	2	Defective drainage.
545	31	83	114	6	6	9	23	108					2	4	6	Bad.
546	4	4	8					8					2		2	Fair.
E. 546	1		1					1						1	1	Fair.
547		3	3					3								Fair.
E. 547		1	1					1								Fair.
550		2	2					2				1	2	1	3	Fair.
551	10	44	54		1		5	53		1		2		5	5	Defective drainage.
552		4	4					4				1	1	1	2	Fair.
553	5	29	34		1	5	7	33						1	1	Bad.
W. 553	3	13	16				9	15								Bad.
554		9	9					9	1			1	3	2	5	Fair.
555	4	1	5	1	1		2	4						1	1	Fair.
557	41	64	105	4	27	24	42	78		4		1	6	10	16	Defective drainage.
558	15	30	45	1	18	21	14	27						11	11	Not very good.
559	25	28	53	4	11	16	22	42		3			4	2	6	Fair.
560	10		10	7	10	10	10					1	2		2	Good.
561	27	1	28	6	18	18	20	10					1		1	Good.
562	16	9	25	16	20	20	20	5								Good.
S. 562	11	18	29	4	17	22	25	11				1	3	2	5	Good.
563	20	7	27	1	22	22	23	5								Fair.
564	18	43	61	8	26	23	32	38				1	5	5	10	Good.
565	18	10	28	12	27	27	29	1					4		4	Good.
566	15	25	40	6	26	27	27	15					1	3	4	Good.
567	22	15	37	8	25	28	27	12		1		1	3		3	Good.
568	35	1	36	30	35	35	35	1								Good.
569	34	27	61	21	25	28	24	35				2	4	6	10	Fair.
570	42		42	42	42	42	42					1	2	1	3	Good.
571	48	2	50	32	35	33	38	15				1	4	2	6	Defective drainage.
572	14		14	14	14	14	14									Good.
S. 572	3	1	4	3	3	1	1									Fair.
573	17	3	20	19	19	17	10	1				2	2		2	Good.
Res. 11	42	8	50	21	24	24	24	26				2	2	3	5	Good.
574	18	9	27	18	26	26	26	1					3		3	Good.
Res. 12	28	1	29	28	29	28	28	3					1	1	2	Good.
575	27	36	63	24	42	48	47	21				1	2	1	3	Fair.
576	4	16	20	3	3	6	8	17					2	1	3	Fair.
577	10	25	35	1	1	1	5	34				2		4	4	Bad.
578		1	1					1						1	1	Fair.

* Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewerd.	Water-closets.	Yards sewerd.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
579	14	15	29				14	29		1		1		5	5	Fair.
580	6	40	46				12	46						6	6	Bad.
581	30	33	63				21	63		3			3	2	5	Bad.
582	12	51	63				9	63		3		6	4	5	9	Fair.
583	17	45	62				8	62				1	2	14	16	Drainage defective.
584	8	37	45				12	45		3		3	2	9	11	Drainage defective.
585	21	36	57				15	57				3	2	13	15	Bad.
586	9	36	45				8	48		5		1	2	4	6	Bad.
587	8	33	41				8	41		2				5	5	Fair.
588	4	9	13				11	13						3	3	Fair.
589	3	10	13				3	13		1		1		4	4	Good.
590		16	16				2	16						3	3	Fair.
591		2	2					2								Drainage defective.
592		1	1					1								Drainage defective.
593		10	10					10						1	1	Bad.
594	3	47	50				3	50					1	1	2	Bad.
595		1	1					1								Bad.
596	7	31	38				6	38				2	3	4	7	Bad.
597	1	1	2					2				1		3	3	Fair.
*W. 597																
598		5	5					5								Not very good.
599		15	15					15						1	1	Not very good.
601	1	2	3				1	3	1	1	1					Not very good.
602		4	4					4		1	1		1	1	2	Not very good.
603	1	1	2					2								Not very good.
604																
605																
606																
607		1	1					1								Fair.
608																
609																
*610																
611		2	2					2			2					
613		2	2					2								
614		1	1					1								
615	10	11	21					21					1		1	Good.
616	18	36	54				5	54		1		1	3		2	Bad.
617		6	6					6					2	1	3	Bad.
618																
619	1		1				1	1								
620	21	33	54	10	10		24	44		1		1		7	7	Drainage defective.
621	4	3	7	1	4	4	4	3						1	1	
622	11	3	14	7	13	12	12	1					3		3	Good.
623	140		140	140	140	140	140					2	13		13	Good.
W. 623	33		33	33	33	33	33					2	2		2	Good.
624	61	40	101	10	47	42	14	54				1	4	1	5	Drainage defective.
625	29	26	55	7	19	24	37	36				1	7	4	11	Drainage defective.
626	18	31	49		20	23	40	28		4		1	12	2	14	
628	49	4	53	35	53	48	48					1	3	2	5	Good.
629	4		4	3	3	3	3	1					2	1	3	
630	10	11	21	6	19	15	16	2					1	1	2	
631	21	20	41	13	40	39	37	1					1	1	2	Good.
632	1		1													B. & O. R. R. depot.
633	6	12	18	6	6	5	4	12				3	1	2	3	Bad.
634	20	8	28	11	29	19	19	7				1	4	2	6	
635	4	12	16	1	1	1	1	15		1			2	3	4	Bad.
636	4	3	7					7				2		3	3	Bad.
637		7	7					7								Drainage defective.
638	8	14	22				5	22				3	2	7	9	Drainage defective.
639		1	1					1						1	1	
840	2	17	19			10	3	24								Fair.
641	13	4	17	5	5	9	13	12		1			1		1	Fair.
642	5	27	32				2	32				2	1	2	3	Bad.
E. 642	4	3	7					7				1	2		2	Defective drainage.
643	5	10	15					15						3	3	Fair.
E. 643	3	4	7					7								Bad.
S. 643		8	8					8								Fair.
*645																
646																
647	1		1	1	1	1	1									
648	1		1				1	1								
*649																

*Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewerd.	Water-closets.	Yards sewerd.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
650	1	37	38					38				3		3	3	Fair.
†651																
652	6	19	25			2	2	25		1				1	1	Fair.
653	8	2	10					10					3		3	Fair.
654		6	6					6						1	1	Fair.
†655																
656	1	12	13					13				1	1	2	3	Fair.
†657																
658		4	4					4	1		1					
†660																
661		1	1					1		1						
662	4		4					4	2		1			1	1	Good.
663	1	3	4					4						1	1	
664	4	7	11					11	1				1		1	Fair.
665		1	1					1								
666		3	3					3			1					
667		2	2					2								
668	6	4	10				2	9	1				1		1	Good.
669	11	13	24				3	24				1	4		4	Drainage defective.
670																
671																
672																
673																
674																
675	150		150	150	150	149	149					1	13		13	Good.
676	31	25	56	16	23	19	38	30		2		1	10		10	
677	36	99	135	2	6	5	29	132		3		4	17	3	20	Deficient sewerage.
678		3	3					2		3				1	1	
679	3	8	11		2	4	5	9					2	2	4	
680	1	2	3	1				2								
681		1	1					1								Fair.
682	3	4	7	2	2	2	2	4								Good.
683	1	2	3	1	3	1	1									
684	14	10	24	8	15	15	15	9					2	2	4	Good.
685	15	7	22	16	18	15	15	4					1	1	1	Good.
686	21	7	28	16	22	16	16	5				1	3	1	4	Good.
689	9	1	10	9	9	9	9	1								Good.
690	28	7	35	27	27	28	29	13				1	2	2	4	Good.
691	12	10	22	13	13	17	15	9		2						Good.
692	14	4	18	13	17	17	17	5					3		3	Good.
693	22	12	34	15	15	15	21	19				1	4	2	6	Bad.
694	17	12	29	17	17	17	17	12				1	1	3	4	Fair.
*NW. 695																
W. 695	4	21	25					25						2	2	Fair.
695	1	11	12				3	12								Fair.
696	3	7	10				3	10				1		1	1	Good.
N. 697	1		1					1								
†697																
†698																
N. 699		1	1					1					1		1	
699		1	1					1								
700	2	1	3				2	3				2	3		3	
701	9	5	14				6	14								Good.
702	13		13				2	13								Good.
703	13	10	23				2	23				1	1	1	2	Good.
†704																
705		1	1					1								
706		1	1					1								
708		2	2					2								
*709																
*710																
E. 710																
711		2	2					1								Not very good.
E. 711		3	3					3								
712		15	15				2	13		2						Not very good.
713		8	8				4	8								
*714																
715	3	17	20				11	20						1	1	Fair.
716	13	20	33				26	37				2	5		5	Fair.
717	11	17	28				24	28					1		1	Fair.
718	1		1													Not very good.

* Vacant.

† Brick-yard.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
719	11	50	61	.....	.....	.....	40	61	.....	6	.....	.....	6	.....	6	Drainage defective.
720	32	4	36	.....	32	.....	32	4	.....	.....	.....	1	3	.....	3	Fair.
721	18	.....	18	18	18	.....	18	.....	.....	.....	.....	.....	1	.....	1	Fair.
722	18	.....	18	18	18	6	12	.....	.....	.....	.....	.....	2	1	3	Good.
723	1	.....	1	1	1	.....	1	.....	.....	.....	.....	1	.....	1	1	Drainage defective.
724	17	40	57	18	24	28	32	33	.....	4	.....	1	3	1	4	Fair.
725	36	31	67	37	39	44	44	46	.....	1	.....	1	3	3	6	Fair.
726	5	2	7	5	7	7	5	.....	.....	.....	.....	1	1	.....	1	Good.
727	21	.....	21	21	21	21	21	.....	.....	.....	.....	1	1	.....	1	Good.
728	31	6	37	24	25	30	35	15	.....	.....	.....	.....	5	.....	5	Good.
729	28	10	38	23	26	28	30	14	.....	.....	.....	1	3	2	2	Good.
730	12	2	14	6	7	10	11	7	.....	.....	.....	1	.....	1	1	Fair.
731	13	3	16	5	11	11	8	4	.....	.....	.....	.....	.....	.....	.....	Fair.
732	70	22	92	60	66	54	76	27	.....	.....	.....	.....	1	4	5	Good.
733	22	20	42	22	26	35	27	17	.....	.....	.....	2	1	4	5	Not very good.
734	12	32	44	11	12	13	21	32	.....	1	.....	.....	1	3	4	Fair.
735	.....	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	1	1	.....
736	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Good.
737	.....	34	34	.....	.....	.....	1	34	.....	.....	.....	2	1	5	6	Bad.
738	1	.....	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2	2	.....
739	5	9	14	.....	.....	.....	5	14	.....	.....	.....	.....	.....	.....	.....	Fair.
740	12	8	20	.....	.....	.....	15	20	.....	.....	.....	.....	4	1	5	Bad.
741	6	4	10	.....	.....	.....	2	10	.....	.....	.....	1	1	.....	1	Bad.
742	15	16	31	.....	.....	.....	18	31	.....	.....	.....	2	2	2	4	Fair.
N. 743	3	2	5	.....	.....	.....	1	6	.....	.....	.....	.....	1	.....	1	.....
743	10	27	37	.....	.....	.....	5	37	.....	.....	.....	1	2	6	8	Fair.
†744	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
747	2	4	6	.....	.....	.....	3	6	.....	.....	.....	.....	.....	.....	.....	Good.
748	13	15	28	.....	.....	.....	15	28	.....	1	.....	.....	.....	.....	.....	Drainage defective.
749	13	11	24	.....	.....	.....	10	24	.....	1	.....	.....	1	.....	1	Bad.
*750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
751	10	5	15	1	1	2	5	15	.....	.....	.....	1	4	.....	4	Fair.
752	5	16	21	.....	.....	.....	13	21	.....	.....	.....	.....	3	.....	3	Good.
753	.....	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	1	.....	1	.....
754	.....	1	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	Drainage defective.
755	9	20	29	1	1	7	13	26	.....	.....	.....	.....	1	2	3	Good.
756	6	11	17	1	7	8	11	8	.....	.....	.....	1	2	2	4	Good.
757	16	26	42	3	21	26	32	21	.....	.....	.....	3	3	1	4	Good.
758	5	12	17	4	9	9	9	9	.....	.....	.....	.....	3	1	4	Fair.
759	11	17	28	19	25	27	25	4	.....	1	.....	.....	1	.....	1	Good.
760	30	.....	30	30	30	.....	30	.....	.....	.....	.....	.....	4	.....	1	Good.
761	31	5	36	24	32	30	32	4	.....	.....	.....	1	4	.....	4	Defective sewerage.
762	20	16	36	15	28	18	17	10	.....	.....	.....	2	5	1	6	Fair.
763	23	9	32	16	17	15	19	10	.....	1	.....	1	1	1	2	Fair.
764	1	3	4	3	3	4	4	3	.....	.....	.....	.....	.....	.....	.....	Good.
765	1	.....	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	Good.
766	7	19	26	.....	.....	.....	18	26	.....	.....	.....	2	3	5	8	Fair.
767	1	9	10	.....	.....	.....	4	10	.....	.....	.....	.....	2	1	3	Fair.
768	2	10	12	.....	.....	.....	10	12	.....	.....	.....	.....	.....	1	1	Fair.
769	4	11	15	.....	.....	3	8	15	.....	.....	.....	1	1	.....	1	.....
770	6	14	20	.....	2	2	5	18	.....	.....	.....	.....	1	1	2	Fair.
771	4	3	7	1	1	1	3	6	.....	.....	.....	1	1	3	4	Fair.
772	.....	4	4	.....	.....	.....	.....	4	.....	.....	.....	1	1	.....	1	Good.
773	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
774	1	28	29	.....	.....	.....	18	29	.....	.....	.....	.....	.....	1	1	Drainage defective.
775	6	6	12	.....	.....	.....	7	12	.....	.....	.....	.....	.....	.....	.....	Fair.
776	4	33	37	.....	.....	.....	16	37	.....	7	.....	.....	1	.....	1	Bad.
777	1	12	13	1	1	1	10	12	1	1	.....	.....	.....	.....	.....	Bad.
778	.....	3	3	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	Fair.
779	.....	8	8	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	Bad.
780	4	11	15	4	4	.....	5	11	.....	.....	.....	.....	.....	3	3	Fair.
781	2	.....	2	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	Good.
782	11	21	32	1	7	7	15	26	.....	.....	.....	.....	2	2	4	Bad.
783	4	14	18	4	4	5	2	14	.....	.....	.....	.....	3	.....	3	Fair.
784	16	6	22	5	9	10	11	13	.....	.....	.....	.....	2	1	3	Drainage defective.
785	31	15	46	11	18	27	31	31	.....	2	.....	1	3	2	5	Good.
786	14	17	31	12	18	24	22	14	.....	.....	.....	3	3	.....	3	Good.
787	24	8	32	21	25	27	27	12	.....	.....	.....	.....	1	.....	1	Good.
788	21	10	31	15	24	24	25	7	.....	.....	.....	.....	1	2	3	Good.
789	4	4	8	4	6	8	4	1	.....	.....	.....	.....	.....	1	1	Good.
790	16	13	29	7	22	16	18	9	.....	.....	.....	.....	2	.....	2	Bad.
791	13	18	31	12	13	16	13	17	.....	1	.....	1	3	.....	3	Bad.

*Vacant.

†Brick-yard.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
792	3	24	27	...	7	8	12	20	...	...	...	...	2	...	2	Fair.
793	8	22	30	1	12	21	21	18	...	...	...	...	2	2	2	Good.
*794	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
795	5	39	44	1	4	10	22	44	...	...	...	...	2	6	8	Good.
796	5	7	12	3	3	3	6	10	...	...	...	...	1	2	3	Fair.
797	8	25	33	1	1	2	6	32	...	...	...	3	...	8	8	Bad.
798	1	31	32	1	1	1	12	31	...	...	...	1	3	...	3	Drainage defective.
799	13	20	33	...	...	...	10	33	...	...	...	1	2	3	5	Fair.
800	1	11	12	...	...	...	5	12	...	...	...	...	2	...	2	Fair.
801	6	8	14	1	1	...	7	13	...	...	...	...	1	...	1	...
802	7	...	7	...	...	...	5	7	...	...	...	...	2	1	3	Good.
†803	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*804	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
805	9	1	10	...	...	...	2	11	...	...	...	...	3	...	3	Good.
806	3	9	12	...	...	...	5	12	...	...	...	1	1	...	1	Drainage defective.
807	1	2	3	...	...	...	1	3	...	2	...	...	2	...	2	Drainage defective.
808	2	2	4	...	...	...	3	4	...	...	...	...	...	...	...	Fair.
809	14	3	17	...	...	...	17	17	...	1	...	1	1	1	2	Bad.
*810	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
811	1	1	2	1	1	...	1	1	...	...	...	1	1	...	1	Good.
812	3	2	5	...	...	...	2	5	...	...	...	1	1	1	2	Bad.
813	1	10	11	...	...	...	4	11	...	...	...	...	1	...	1	Fair.
814	5	3	8	2	4	3	5	4	...	...	...	...	...	1	1	Fair.
815	...	1	1	...	...	...	...	1	...	...	...	...	...	2	2	Good.
816	12	25	37	6	9	10	32	28	...	2	...	...	3	...	3	Drainage defective.
817	8	10	18	11	15	13	16	8	...	...	...	...	2	...	2	Fair.
818	12	17	29	15	22	20	25	12	...	...	...	...	2	4	6	Fair.
819	16	10	26	14	19	22	21	8	...	...	...	...	1	1	2	Good.
820	1	24	25	1	4	8	11	21	...	...	...	...	...	...	...	Fair.
821	5	26	31	...	3	6	14	28	...	...	...	...	1	4	5	Good.
822	6	27	33	2	5	5	17	32	...	1	...	...	...	2	2	Good.
823	2	26	28	1	1	2	17	27	...	...	...	2	...	2	2	Good.
824	2	13	15	...	...	...	7	15	...	...	...	...	...	...	...	Fair.
825	8	11	19	...	...	...	7	19	...	...	...	...	...	1	1	Drainage defective.
826	9	11	20	...	...	...	12	19	...	...	...	...	...	1	1	Fair.
827	...	2	2	...	...	...	2	2	...	...	...	1	...	1	1	...
828	...	6	6	...	...	...	1	6	...	...	...	...	...	1	1	Good.
829	4	23	27	...	...	...	6	27	...	...	...	1	1	...	1	Fair.
830	1	1	2	...	...	...	...	2	...	1	...	...	...	...	...	Fair.
*831	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
832	...	2	2	...	...	...	...	2	...	...	...	...	...	...	...	Drainage defective.
833	4	6	10	...	...	...	6	10	...	2	...	...	2	...	2	Fair.
*834	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
835	1	2	3	...	...	...	3	3	...	...	...	...	...	...	...	Good.
836	2	6	8	...	...	...	2	8	...	3	...	...	1	...	1	Good.
837	3	7	10	...	...	...	4	10	...	...	...	...	...	...	...	Drainage defective.
838	3	4	7	1	1	...	4	7	...	...	...	...	2	...	2	Good.
839	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...
840	9	10	19	6	7	5	15	13	...	...	...	...	1	1	2	Drainage defective.
841	7	12	19	10	15	11	13	6	...	...	...	...	...	...	...	Fair.
842	17	17	34	11	16	24	25	18	...	...	...	...	2	3	5	Good.
843	13	10	23	12	18	18	17	7	...	1	...	...	1	1	2	Good.
844	6	11	17	3	7	10	12	12	...	...	...	...	1	...	1	Fair.
845	6	13	19	3	6	13	11	13	...	...	...	...	2	2	4	Good.
846	3	31	34	3	18	13	27	23	...	...	...	1	1	3	4	Fair.
847	13	21	34	4	15	17	26	19	...	1	...	1	3	1	4	Good.
849	3	7	10	...	...	...	1	10	...	...	...	1	1	2	3	Bad.
Res. 15	...	2	2	...	...	...	...	2	...	...	...	...	...	1	1	...
N. 853	1	17	18	...	...	...	3	18	...	...	...	...	2	...	2	Bad.
*853	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
855	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...
856	3	8	11	...	...	...	7	11	...	...	...	...	...	...	...	Good.
857	5	...	5	...	...	...	3	5	...	...	...	...	1	...	1	Not very good.
858	7	23	30	5	5	4	13	27	...	3	...	1	3	3	6	Drainage defective.
859	...	11	11	...	...	4	3	11	...	2	...	1	2	...	2	Good.
*860	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*861	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
*862	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
863	2	7	9	...	...	...	2	9	...	...	...	...	...	1	1	Good.
864	4	2	6	1	1	1	4	5	...	...	...	...	...	...	...	Good.
865	5	24	29	1	3	10	9	25	...	1	...	1	...	1	1	Bad.

* Coal-yard.

† Vacant.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.	of
	Brick.	Frame.	Total.										White.	Colored.	Total.		
866	2	3	5				5	5				1	4	4		Drainage defective.	
867	26	29	55	27	45	34	40	11		1			4	3	7	Good.	
868	9	18	27	11	15	15	24	14		1				1	1	Fair.	
869	33	16	49	29	37	36	38	6					1		1	Good.	
870	51	30	81	17	44	41	68	38		1		1	6	6	12	Drainage defective.	
871	9	7	16	11	14	15	16	1		1			1		1	Good.	
†872																	
873	15	15	30	6	17	18	21	7								Good.	
874	21	26	47	19	44	43	44	4				1	3		3	Good.	
875	1		1	1	1	1	1	2								Good.	
876	22	27	49	6	13	13	33	36					1		1	Fair.	
877	28	38	66	15	31	35	58	40					1	2	3	Fair.	
878	21	27	48	8	8	17	35	43		1			5		5	Good.	
879	6	2	8				1	8						2	2		
880	3	10	13		1		1	12									
881	19	4	23		2		2	23		1			1		1		
882	13	4	17				3	17					2		2	Drainage defective.	
886		1	1					1									
887	5		5				2	5								Bad.	
888		10	10				5	10	1				1		1		
889	9	13	22	17	22	22	22					1	2	1	3	Good.	
890	6	4	10	2	7	7	10	3		1			1		1	Fair.	
891		4	4			2	4	4									
892		16	16	16	16	16	16	3					1		1	Good.	
893	4	15	19		1	1	12	17					1	2	3	Drainage defective.	
894	13	8	21	2	2	2	10	19		2			2		2		
895	5	7	12		1	2	8	11		1				2	2	Drainage defective.	
896	1	3	4		1		1	3									
897	5	6	11	7	10	12	7	5		1						Good.	
898	17	10	27	14	14	6	15	13				2	2	4	6	Fair.	
899	1		1					1									
900	13	24	37	7	24	34	35	14				1	1		1	Good.	
901	1		1		2		1										
902	1	12	13	5	8	9	10	5					1		1		
903	4	44	48	4	9	14	35	40					3		3	Drainage defective.	
904	31	24	55	12	25	38	46	28					3		3	Fair.	
905	18	4	22	2	4	5	17	21				1	1	1	2	Fair.	
906	19	6	25				18	25					1	1	2		
907	10	4	14		5	2	5	9				1	1	3	4	Fair.	
*908																	
*909																	
*910																	
*911																	
912	12	12	24	24	24	18	24	9					3		3	Good.	
*913																	
914	1	5	6				2	6		1				1	1	Good.	
915		1	1					1								Fair.	
§ 915	7	7	14		6	4	5	8		2		1	1		1	Fair.	
916	11	16	27			4	20	27		3			1	1	2	Drainage defective.	
917		1	1					1						1	1		
917		1	1		1	1	1		1								
918		1	1		1	1	1	1									
919	8	7	15	4	8	8	10	5				1	2		2	Good.	
920	12	14	26	13	14	14	18	10					1	4	5	Fair.	
921	1	2	3				1	3						1	1		
922	1		1				1	1									
923	7	10	17	5	5	5	13	16								Fair.	
924	1	7	8	1	1	1	4	9								Fair.	
925	11	12	23	5	12	12	15	11					2		2	Drainage defective.	
926	8	31	39	2	5	9	30	34				1	4			Drainage defective.	
*927																	
928	14	5	19	1	8	7	12	10				1	1		1	Fair.	
929	2	9	11				5	11				1	1		1	Drainage defective.	
930	19	7	26	3	6	5	11	14				2	4		4	Fair.	
931	1	1	2			1	1	1					1		1		
932		9	9	9	9		9	4		1		2	2	1	3	Good.	
933	15	29	44	17	28	35	22	15				1	1	1	2	Fair.	
934	3	19	22	8	22	2	8	1				1	1		1	Drainage defective.	
935		22	22	1	22	6	22	7					1		1	Good.	
*936																	
937	1		1				1	1									
938		7	7					7						6	6		

* Vacant.

† Eastern market-house.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
939	...	14	14				5	14		2		1	1	2	3	Fair.
940	1	...	1	1	1	1	1	1								
941	2	13	15	3	8	8	10	7					1		1	Fair.
942	3	9	12	2	4	3	4	8								Fair.
943	...	10	10	2	2	3	7							1	1	Drainage defective.
944	1	39	40	4	23	25	22	18					2		2	Fair.
945	9	28	37	2	9	9	18	28		1			1	2	3	Fair.
946	...	1	1					1								
947	14	...	14	14	14		14					1	2		2	Good.
948	1	...	1	1	1	1	1									Good.
949	7	27	34				22	34					3		3	Drainage defective.
950	6	42	48				26	48					2		2	Bad.
951	1	17	18				13	18					3		3	Fair.
S. 951	1	1	2				1	2								
952	8	4	12				7	12					1		1	Fair.
953	4	7	11					11					1		1	Good.
†954	...	...	...													
†955	...	...	...													
956	1	...	1			1	1	1								Good.
957	...	9	9					9						1	1	Bad.
958	...	4	4			2	4	4					1		1	Fair.
959	...	26	26		6	5	11	21				1		3	3	Bad.
960	15	16	31	14	14	14	14	17		1			1	1	2	Fair.
961	...	3	3				2	3		3						Good.
962	...	1	1					1					1		1	
963	...	3	3				2	3								Good.
964	3	3	6		1	3	6	6								Good.
965	...	3	3			1		3								Fair.
966	...	2	2					2								Fair.
967	4	5	9	4	7	5	6	2								Good.
968	6	6	12	3	7	7	6	5		2				1	1	
969	...	1	1					1								
970	8	5	13	4	4	7	8	9				1	2	2	4	Fair.
971	...	25	25	1	3	8	22	22								Fair.
972	8	5	13	3	9	5	10	5					2		2	Fair.
973	4	12	16	1	1	3	8	15					4		4	Drainage defective.
974	7	23	30				13	30		1			2		2	Drainage defective.
975	4	23	27				20	27					3		3	Fair.
S. 975	8	6	14				7	14		1			2		2	Drainage defective.
976	1	22	23				15	23		1			1		1	Fair.
977	11	19	30				12	30					3	1	4	Fair.
978	1	6	7					7								
979	1	2	3					1								
†N. 980	...	...	...													
†980	...	...	...													
†981	...	...	...													
982	...	2	2					2								Drainage defective.
983	2	17	19					19		2		1	1		1	Fair.
984	1	...	1					1					2		2	
985	2	14	16					16					1		1	
986	2	14	16				2	16		1		2	2	2	4	Drainage defective.
987	16	36	52	21	32	20	52	21					3		3	
†988	...	...	...													
989	16	...	16	12	12	16	16	12								Good.
990	9	10	19	6	9	3	8	10		1			1		1	Fair.
S. 990	...	4	4				1	4		1						Drainage defective.
991	6	3	9	2	2	3	6	7								Fair.
992	1	8	9		1	3	2	4		1						Fair.
994	6	5	11	1	1	1	10	11		1						Fair.
995	3	24	27	1	2		15	26		1			2		2	
996	1	14	15				8	15		1			2		2	Fair.
998	...	8	8					8								Fair.
999	1	8	9		2	2	2	7								Good.
1000	2	28	30				10	30		1			5		5	Fair.
1001	4	10	14				3	14					2		2	Fair.
S. 1001	...	1	1				1	1								
1002	12	16	28	1	1	7	8	28				1	1		1	Bad.
1003	...	1	1					1								
1004	2	...	2					2								
1005	1	7	8					8					1		1	Good.
1006	...	8	8				1	8		1						Bad.
1007	1	12	13				2	13		2		1	2		2	Fair.

* United States Marine Barracks.

† Vacant.

408 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
1008		1	1				1	1								
*1009																
1010		15	15					15						6	6	Bad.
1011		1	1					1								Fair.
*1012																
*1013																
1014		1	1					1								Fair.
*1015																
*1016																
*1017																
1018	8	26	34				9	34		1			1	1	2	Fair.
1019	1	27	28				11	28		2		2	4		4	Fair.
S. 1019		7	7				3	7					1		1	Fair.
1020	4	39	43				27	43		1		1	2		2	Fair.
1021		5	5					5								Fair.
1022		1	3	4				1	4							Fair.
1023	1	2	3					3	2		1					Fair.
*1024																
*1025																
1026	15	11	26	1	9	21	18	18					3	1	4	Bad.
1027		10	10				6	10				1	1		1	Drainage defective.
1028		6	6					6						1	1	Drainage defective.
*1029																
1030		1	1					1								Fair.
†1031																
*1032																
1033	4	18	22				5	22		2				2	2	Drainage defective.
1034		18	18					18						4	4	Bad.
1035		1	1					1								Good.
*1036																
1037		9	9					9				1		1	1	Bad.
*S. 1037																
*1038																
1039	2	17	19				2	19						4	4	Bad.
*1040																
*1041																
W. 1041		4	4					4								Drainage defective.
1042		7	7				1	8								Fair.
1043	6	18	24				3	24					1		1	Fair.
1044		1	1					1								Fair.
1045		5	5					5					4	1	5	Fair.
1046	3	4	7				2	7						1	1	Fair.
1047	4	27	31				3	31				4	6		6	Fair.
1048		2	2					2								Fair.
1049	3	5	8				2	8								Fair.
1050	3	6	9				2	9								Fair.
1051		1	1					1		1						Bad.
1052	3		3					3				1		1	1	Drainage defective.
1053																Fair.
*1054																
1055		11	11				4	11				1	1	4	5	Fair.
*1056																
1057		2	2					2								Fair.
1058		17	17				4	17		1		2		3	3	Fair.
1059		1	1					1				1		1	1	Fair.
S. 1059	3	7	10				3	10				1		1	1	Drainage defective.
1060		7	7					7		2				1	1	Fair.
1061	1	14	15					15						2	2	Bad.
*1062																
*1062																
1063	1	2	3					3								Fair.
*1064																
*NE. 1065																
1065		1	1					1								Fair.
1066		4	4					4					1		1	Fair.
*1067																
*1068																
1069		4	4					4								Fair.
1070	1		1					1						1	1	Fair.
1071		4	4					4								Bad.
1072		1	1					1								Bad.
S. 1072		2	2					2								Bad.

* Vacant.

† Brick-yard.

WASHINGTON—Continued.

Number of square.	Houses.			Houses sewered.	Water-closets.	Yards sewered.	Yards paved.	Privy-boxes.	Slaughter-houses.	Cow stables or yards.	Hog-pens.	Deaths from principal zymotic diseases.	Deaths.			Sanitary condition of square at the time of examination.
	Brick.	Frame.	Total.										White.	Colored.	Total.	
1073		4	4					4								Bad.
1074		2	2					2								Bad.
1075		4	4					4								Fair.
*1076																
*1077																
1078	1	5	6					6								Fair.
*1079																
*1080																
1082		9	9					7						3	3	Bad.
1083		7	7					5								Bad.
1084		2	2					2						1	1	Bad.
1085		10	10					10		1		1		1	1	Drainage defective.
1086																
1087		9	9					9					1		1	Drainage defective.
1088		9	9					9				1	1	1	2	Drainage defective.
†1089																
1090		1	1					1				1	1		1	
1091		1	1					1								
*1091																
1092																
1093		8	8					8								Bad.
1094		8	8					8						2	2	Bad.
1095	2	7	9				1	9		1			1		1	Bad.
1096		1	1					1					1		1	Bad.
1097																
1098		8	8					8				2	3	3	6	Fair.
*1100																
*1102																
1107																
1108	1	12	13					10				1		2	2	Bad.
1109		3	3					2						1	1	Bad.
1110	1	10	11					11					1	1	2	Fair.
1111		3	3					3					1		1	Fair.
1112																
1113																
1114																
*1114																
1118																
*1119																
*1120																
*1121																
*1122																
*1125																
*1126																
*1127																
*1128																
1129																
*1132																
1133																
*1134																
*1135																
1136																
*1137																
1138																
1139																
*1140																
*1141																

* Vacant. † Cemetery.

RECAPITULATION.

	Washington.	Georgetown.	Total.
Brick-houses	14,392	1,157	15,549
Frame-houses	13,736	1,189	14,925
Total houses	28,128	2,346	30,474
Houses sewered	9,580	486	10,066
Water-closets	13,410	704	14,114
Yards sewered	13,236	436	13,672
Yards paved	15,554	938	16,492
Privy-boxes	14,508	1,378	15,886
Slaughter-houses	17		17
Cow stables or yards	314	55	369
Hog-pens	11		11
Deaths from principal zymotic diseases	464	31	495
Deaths, white	1,533	131	1,664
Deaths, colored	1,295	89	1,384
Total deaths	2,828	220	3,048

Average number of occupants to each house, 5.25.

INVESTIGATIONS TO ASCERTAIN LOCAL CAUSE OF DISEASE.

The force at the disposal of the health officer has never been sufficient to warrant the comprehensive research, study, and investigation which the importance of this subject demands. Notwithstanding the enlightened and advanced condition of the public mind and the general recognition of the importance of every measure in the interest of the public health, our legislators are yet slow to provide in the appropriation bills the means for employment of adequate and competent skill in ferreting out and placing before the public all possible information which might tend to prevent the rise and spread of infectious or contagious diseases. In consequence of this limited means and force we have not been able to give time to proper investigation in the effort to ascertain the local cause, if such existed, in cases of death from zymotic disease. The subject is a broad one and the field it opens affords opportunity for extended illustration, by fact and figure, which would prove of great interest and value. The following report of the medical sanitary inspector gives information as to examination in 124 cases; 85 of diphtheria, 27 of typhoid fever, and 12 of scarlet fever. The information is not so full and complete as we could desire, only three diseases being given, and the facts in no particular case illustrated. The causes before mentioned must be our excuse for this, and I trust some information may be gleaned from the following report.

Success attended our efforts in the only case where we were called upon to prevent the spread of small-pox during the year.

REPORT OF MEDICAL SANITARY INSPECTOR.

SIR: I have the honor of making and presenting to you the following report of my work as medical sanitary inspector for the year ending June 30, 1881:

Investigations made.	Diseases.			
	Scarlet fever.	Diphtheria.	Typhoid fever.	Total.
First quarter	2	6		8
Second quarter	5	46	10	61
Third quarter	4	21	11	36
Fourth quarter	1	12	6	19
Total for year	12	85	27	124

Investigations made.	Diseases.			Total.
	Scarlet fever.	Diphtheria.	Typhoid fever.	
Condition of premises:				
Sanitary.....	11	67	25	103
Unsanitary.....	1	18	2	21
Disposition of fecal matter:				
Water-closets.....	8	43	14	65
Privy-boxes.....	4	42	13	59
Water used:				
Hydrant or Potomac.....	9	67	18	94
Well and spring.....	3	18	9	30
Probable source of infection:				
Sporadic and unknown.....	5	64	16	85
Contagion.....	7	4		11
Sewer-gas.....		3	2	5
Unsanitary surroundings.....		3	3	6
Dampness of house.....		7		7
Foul gas from well.....		1		1
Filth.....		1		1
Foreign.....		2	6	8
Location of deaths:				
Northwest.....	6	49	19	74
Southwest.....	1	15	3	19
Northeast.....	4	6	1	11
Southeast.....	1	6	2	9
West Washington.....		9	2	11

The foregoing table shows in a small space the number of investigations by quarters, condition of premises on which the case occurred, cause of infection, &c., of each of the three diseases, scarlet fever, diphtheria, and typhoid fever. In comparing the past year's work with that of the preceding, some marked changes may be noted; for instance, during the year ending June 30, 1880, 21 investigations were made as to the cause of scarlet fever, for the past year but 12 have been made; diphtheria caused but 24 investigations during the former year, and 85 for the past; typhoid fever 64 for the former and but 27 during the last year.

The following statement shows the number of deaths from diphtheria, croup, and scarlet fever for the 2 quarters of each of the past 7 years when these diseases are the most prevalent:

Period.	Deaths from-		
	Diphtheria.	Croup.	Scarlet fever.
Quarter ending December 31, 1874.....	4	9	2
Quarter ending March 31, 1875.....	8	20	6
Quarter ending December 31, 1875.....	11	17	8
Quarter ending March 31, 1876.....	16	23	8
Quarter ending December 31, 1876.....	15	20	27
Quarter ending March 31, 1877.....	17	16	38
Quarter ending December 31, 1877.....	66	35	35
Quarter ending March 31, 1878.....	31	12	45
Quarter ending December 31, 1878.....	29	25	39
Quarter ending March 31, 1879.....	19	15	51
Quarter ending December 31, 1879.....	12	22	13
Quarter ending March 31, 1880.....	7	10	7
Quarter ending December 31, 1880.....	59	44	6
Quarter ending March 31, 1881.....	25	19	7
Total.....	319	287	292

It will be seen by this that there is a closer relation between diphtheria and croup than between either of them and scarlet fever; this is shown in all the quarters except the three ending December 31, 1877, March 31, 1878, and March 31, 1880.

During the past year there has been a decided increase of deaths from diphtheria, but there has been also a decided decrease of deaths from other diseases, typhoid and scarlet fevers included. The general healthfulness of any place should be determined by the rate of the total mortality, and not on account of an unusually large or small number of deaths the causes of which may be classed under one or more names. By selecting one or more causes of death for comparison, any place may prove itself the healthiest locality in the country.

I would renew this year the recommendations made in my report to you last year, regarding a thorough topographical and geological survey of the District, &c., and in addition would suggest that some measure be taken by which we could ascertain the depth of "the ground water." Wells might be sunk for this purpose in different portions of the city, or possibly some of the present wells could be used for the purpose. This process of investigation would certainly remove some of the doubts in the minds of the people as to the relation of damp soil to phthisis, diarrhœal diseases, and how many more we cannot tell. Wells used for this purpose might be "driven" and no water should be allowed to be taken from them. The cost for this investigation would be but slight compared with the probable good to be obtained by it. I would also recommend that investigations be made for the purpose of helping on the discoveries in regard to disease germs, their culture, and their modified effects upon the system when so cultured. M. Pasteur, M. Chauveau, Dr. Farr, Prof. Burdon Sanderson, M. Toussaint, Kelbs, and Tommasi-Crudeli, and George M. Sternberg, surgeon, United States Army, are, with many others, working out results of the greatest moment to mankind in this direction. Undoubtedly some of these investigators will yet discover the remedy by which scarlet fever, diphtheria, and perhaps typhoid fever may be rendered as harmless as small-pox by vaccination. No better place than Washington could be selected for the purpose of these investigations, and I hope you will give this subject such consideration as you think it deserves.

In my last report to you will be found the following:

Physicians even of but limited practice have known cases where on no basis of known facts could the germ (if there is such a thing) of scarlet fever be traced. A theory may be a very plausible and valuable help in explaining occult matters, but it takes more than its continued iteration to make the theory an established or accepted fact.*

I have to confess that the grand result of M. Pasteur's work, in discovering means of completely protecting, sheep, cattle, and horses from the scourge of "splenic fever" or "charbon" by vaccinating them with the "cultured" anthrax bacillus, the very germ that in its natural state produces this disease, causing such terrible ravages among them, has cleared away from my mind much of the mist and doubt that had settled down upon the "germ theory" of disease.

With such a result before us, the question arises, Why may not this be done for all germ diseases? I believe it will be; and that we shall yet be able to protect our children from the scourge of scarlet fever, diphtheria, &c., as we are now from small-pox; possibly consumption

* Report of Health Officer, D. C., 1880, pp. 51, 52.

may be brought into the list. Certainly the subject is large and the field open for all.

THEO. MEAD, M. D.,
Medical Sanitary Inspector.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

VITAL STATISTICS.

The population of the District of Columbia on June 30, 1881, is estimated at 183,060 (white, 121,300; colored, 61,760). This estimate is reached by calculating the increase in same ratio as that given by the census of 1880 for the ten years preceding. The percentage of increase per annum as shown by the census is at the rate of 3.052; that of the colored population, 3.97; white population, 2.59.

During the year ending June 30, 1881, there occurred in the District of Columbia 4,136 deaths. Of this number 1,179 were white males; 1,026 white females; 921 colored males, and 1,010 colored females; showing an annual death-rate of 18.18 per 1,000 per annum for the white, 31.27 for the colored, and 22.59 for the total population. The still-births foot up 370, and there were 3,595 births and 813 marriages reported.

The history of our mortality during the six years ending June 30, 1881, is clearly illustrated in the following tabular statement (statement "A"), and the exhibit is a satisfactory showing of our steady and continued improvement in healthfulness. The evidence of advance in the right direction is established by the record of annual death-rates; a gradual decrease year by year is shown. In 1876 the rate per 1,000 per annum was 26.35; for the past year but 22.59, showing a decrease of 3.76 per 1,000. Now let us pause for a moment and see what this means. With our population of 183,060, a saving of life at the rate of 3.76 per 1,000 means that (as compared with the year 1876) the lives of nearly 700 of our population were saved last year. This is indeed very satisfactory.

The colored population shows a very marked decrease in its death-rate. From 40.74 per 1,000 in 1876 it has fallen to 31.27 for the past year, a decrease of 9.47 per 1,000. This tells of decided improvement in the sanitary condition of the colored population. The mean annual death-rate for the white population for these 6 years is 18.93, for the colored 36.57, and for the total 24.75.

STATEMENT A.

Years.	Population.			Deaths.			Death-rates.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1876	106,741	50,859	157,600	2,090	2,072	4,162	19.58	40.74	26.35
1877	109,505	52,870	162,375	2,190	2,014	4,204	20.00	37.39	25.89
1878	112,340	54,960	167,300	2,167	2,068	4,235	19.29	37.63	25.32
1879	115,247	57,053	172,300	2,196	2,113	4,309	19.06	37.03	25.00
1880	118,236	59,402	177,638	2,085	2,121	*4,207	17.63	35.71	23.68
1881	121,300	61,760	183,060	2,205	1,931	4,136	18.18	31.27	22.59
Mean annual death-rate for the six years							18.93	36.57	24.75

* One included in the total whose color could not be determined.

Statement B, which follows, gives further evidence of this improved condition. This statement shows a decrease in the deaths among the infant population, and also increased ages of the decedents. For instance, among the white males the percentage of deaths to the total of persons 5 years of age and over has increased from 59.6 in 1876 to 67 for the past year, or at the rate of 7.4; persons 20 years of age and over from 53 per cent. to 60.7, an increase of 7.7; persons 40 years of age and over from 35.1 per cent. to 43, an increase of 7.9. Among the white females 5 years of age and over the increase has been from 56.7 to 69.6, or 13.2 per cent.; persons 20 years and over from 47.6 per cent. to 59.6, an increase of 12; persons 40 years and over from 30.4 per cent. to 39.4, an increase of 9. Although this shows the greater increase of percentage to be with the white females, still the mean percentage for the 6 years to the total deaths among this class for each of these periods of life is less than the same among the white males; the percentage at each of these ages among the latter being greater than among the white females. Among the colored males the increase of the percentage to total deaths of persons 5 years of age and over is from 39.4 to 46.1, or 6.7; persons 20 years of age and over from 31.8 per cent. to 37.9, an increase of 6.1; persons 40 years and over from 17.4 per cent. to 22.7, an increase of 5.3. Among the colored females 5 years of age and over, the increase has been from 44 per cent. in 1866 to 52.1 for the past year, or 8.1; 20 years of age and over from 34.3 percent. to 44.4, an increase of 10.1; 40 years of age and over from 19.2 per cent. to 23, an increase of 3.8.

It will be noticed that the mean percentages for the colored females are greater than for colored males, and the percentages of the total white decedents are greater than those for the total colored.

STATEMENT B.

White males, year ending June 30—							Total deaths and mean per- centages to total deaths.
	1876.	1877.	1878.	1879.	1880.	1881.	
Total deaths	1,108	1,149	1,123	1,130	1,097	1,179	6,786
<i>5 years and over.</i>							
Number of deaths.....	660	725	683	689	711	790	4,258
Percentage to total deaths	59.6	63.1	60.8	61.0	64.8	67.0	62.8
<i>20 years and over.</i>							
Number of deaths.....	588	633	568	552	641	716	3,698
Percentage to total deaths	53.0	55.1	50.6	48.8	58.4	60.7	54.9
<i>40 years and over.</i>							
Number of deaths.....	389	432	380	384	459	507	2,551
Percentage to total deaths	35.1	37.6	33.8	34.0	41.9	43.0	37.6

Statement B—Continued.

	White females, year ending June 30—						Total deaths and mean per-centages to total deaths.	Total white.
	1876.	1877.	1878.	1879.	1880.	1881.		
Total deaths.....	982	1,041	1,044	1,066	988	1,026	6,147	12,933
<i>5 years and over.</i>								
Number of deaths.....	557	621	653	647	592	717	3,787	8,045
Percentage to total deaths.....	56.7	59.7	62.5	60.7	59.9	69.6	61.6	62.2
<i>20 years and over.</i>								
Number of deaths.....	467	522	541	535	529	611	3,205	6,903
Percentage to total deaths.....	47.6	50.1	51.8	50.2	53.5	59.6	52.1	53.5
<i>40 years and over.</i>								
Number of deaths.....	299	339	354	334	351	404	2,081	4,632
Percentage to total deaths.....	30.4	31.6	33.9	31.3	35.5	39.4	33.8	35.9
	Colored males, year ending June 30—						Total deaths and mean per-centages to total deaths.	
	1876.	1877.	1878.	1879.	1880.	1881.		
Total deaths.....	1,008	990	1,007	1,051	1,025	921		6,002
<i>5 years and over.</i>								
Number of deaths.....	397	417	394	430	407	425		2,470
Percentage to total deaths.....	39.4	42.1	39.1	40.9	39.7	46.1		41.1
<i>20 years and over.</i>								
Number of deaths.....	321	337	311	344	325	349		1,987
Percentage to total deaths.....	31.8	34.0	30.9	32.7	31.7	37.9		33.1
<i>40 years and over.</i>								
Number of deaths.....	175	206	197	211	186	209		1,184
Percentage to total deaths.....	17.4	20.8	19.6	20.2	18.1	22.7		19.7
	Colored females, year ending June 30—						Total deaths and mean per-centages to total deaths.	Total colored.
	1876.	1877.	1878.	1879.	1880.	1881.		
Total deaths.....	1,064	1,024	1,061	1,062	1,096	1,010	6,317	12,319
<i>5 years and over.</i>								
Number of deaths.....	468	518	504	523	537	526	3,076	5,546
Percentage to total deaths.....	44.0	50.6	47.5	49.2	49.0	52.1	48.5	45.0
<i>20 years and over.</i>								
Number of deaths.....	365	396	374	424	434	449	2,442	4,429
Percentage to total deaths.....	34.3	38.7	35.2	39.9	39.6	44.4	38.7	36.0
<i>40 years and over.</i>								
Number of deaths.....	204	221	208	230	237	232	1,332	2,516
Percentage to total deaths.....	19.2	21.6	19.6	21.6	21.6	23.0	21.1	20.4

Of the total decedents last year, 53.31 per cent. were white and 46.69 colored. The white males aggregated 28.5 per cent. of the total deaths,

and 53.47 per cent. of the white decedents; the white females 24.81 per cent. of the total deaths, and 46.53 per cent. of the white decedents; the colored males 22.27 per cent. of the total deaths, and 47.7 per cent. of the colored decedents; the colored females 24.42 per cent. of the total deaths, and 52.3 per cent. of the colored decedents.

Table I exhibits according to age, color, sex, nativity, by months and classes, orders and specific names, as well as annual death-rates per 1,000, a detailed statement of the mortality for the year. There are 5 classes arranged in 22 orders, showing 271 names of specific diseases or causes of death; of the latter, 56 are causes given under the head of violence, leaving 215 as the actual number of diseases.

I.—ZYMOTIC DISEASES.

From this class of diseases there were 907 deaths, or 21.93 per cent. of the total mortality; the greater number, 768, being of the miasmatic order, and the ones usually meant by the term "zymotic." There were 265 deaths—128 white and 137 colored—from the diarrhoeal diseases; 212—87 white and 125 colored—being of children under five years of age; from malarial fevers there were 130 deaths—58 white, 72 colored—being 62 more than for the year preceding. Malarial fevers, and also typhoid, have been more than usually prevalent throughout the whole country; and probably the percentage of increase is not much, if any, greater here than in other places. Diphtheria caused 124 deaths—106 white, 18 colored—being 95 more than for the preceding year. Croup proved fatal to 89 children—64 white, 25 colored—being 44 in excess of the year before. Sixty-seven deaths—44 white, 23 colored—were caused by typhoid fever; being 17 less than the previous year. From scarlet fever there were 26 deaths—25 white, 1 colored—being 2 less than the year before. Whooping-cough caused 19 deaths—9 white, 10 colored—being 41 less than the previous year. It would seem from these figures that colored persons are much less fatally affected by the exanthematous diseases and diphtheria than white persons. This fact is not only shown by the records of this office, but is also shown by the reports received from other health authorities. There was but one fatal case of small-pox during the year, and that occurred in the case of a man who came from Philadelphia on a vessel, and was fully broken out with confluent variola when he arrived. But 19 deaths were ascribed to syphilis; 15 of these occurring among children under five years of age, congenital cases, the sins of the parents being visited upon the children. The deaths of 92 children were charged to inanition simply; possibly many of these would have been more properly classed with congenital debility. Excessive use of alcohol caused 19 deaths.

II.—CONSTITUTIONAL DISEASES.

Constitutional diseases caused 1,080 deaths, or 26.11 per cent. of the total mortality. The decedents were, 274 white males, being 23.24 per cent. of their total mortality; 269 white females, or 26.16 per cent. of their total mortality; 225 colored males, or 24.43 per cent. of their total mortality; and 312 colored females, 30.89 per cent. of their total mortality. The annual death-rate for the white population from these diseases was 4.40, and for the colored 8.69. Cancer and phthisis, two diseases which, from their importance to physicians and their patients, demand all possible examination and illustration, are classed under this head. A series of tables giving all the information that may be ob-

tained from the certificates of death from these two diseases occurring in this District from September 1, 1874, to June 30, 1881, are given in this report; and the attention of the medical profession, and all others interested, is invited thereto.

During the past year there have been 87 deaths from cancer, an increase of 16 over the year before; they are distributed by color and sex as follows: White males, 17; white females, 47; colored males, 1; and colored females, 22. The increase of white decedents was 14, colored 2. There were 10 cases of cancer of breast—8 white, 2 colored; 27 of the uterus—22 white, 5 colored; 3 of the ovary—2 white, 1 colored; and 18 of the stomach—11 white, 7 colored.

In comparing the deaths from cancer for the past year with the total deaths since September 1, 1874, the following significant facts are noted:

First. The annual death-rate for the past year among white decedents was .527 per 1,000; for the full time since September 1, 1874, it was .457, an increase of .07; the percentage to total deaths for the past year was 2.902; for the full time 2.37, an increase of .532.

Second. The annual death-rate for the past year among colored decedents was .372; for the full time .361, an increase of .012; the percentage to total deaths for the past year was 1.191; for the full time .96, an increase of .231. The experience of one year, however, is not sufficient to predicate an assumption of an actual increase in prevalence of the disease.

About two-thirds of all the deaths from cancer are of persons above 50 years of age, and less than one-tenth under 30 years of age.

The tubercular order is of great importance. Diseases of this order proved fatal to 934 persons during the year—238 white males, 206 white females, 213 colored males, and 277 colored females. Phthisis pulmonalis or consumption belongs to this order and furnishes 759 decedents, or 18.35 per cent. of the total mortality; 367 were white and 392 colored, or 16.64 per cent. of the total white and 20.30 per cent. of the total colored mortality; the annual death-rate per 1,000 for each color being 3.03 for the white and 6.34 for the colored. The mean annual death-rate from phthisis since September 1, 1874, has been 3.02 for the white population and 6.94 for the colored; this shows an increase of .01 per 1,000 among the white and a decrease of .64 per 1,000 for the colored population during the past year. The percentage of deaths from phthisis to total deaths from all causes since the 1st of September, 1874, has been 15.68 for the white and 18.44 for the colored, showing an increased percentage for the past year of .96 for the white and 1.86 for the colored population. For the past year there have been 12 deaths of white children under 5 years from phthisis, and 70 colored; the percentage of these deaths to total deaths under 5 years of age was 1.72 for the white and 7.14 for the colored; the percentage of those dying under 5 years of age from phthisis to the total deaths from the same was 3.24 for the white and 17.60 for the colored; the annual death-rate per 1,000 of those dying of phthisis under 5 years of age was .099 for the white and 1.133 for the colored; for the whole time between September 1, 1874, and June 30, 1881, the percentage of deaths of children from phthisis under 5 years of age to total deaths under 5 years of age was 1.33 for the white and 5.89 for the colored, showing an increased percentage for the past year over the full time of .39 for the white and 1.25 for the colored; the percentage of the deaths from phthisis under 5 years of age to total deaths from phthisis for the full time has been 3.22 for the white and 17.53 for the colored, showing an increased percentage for the past year over the

full time of .02 for the white and .07 for the colored; the mean annual death-rate per 1,000 for those dying from phthisis under 5 years of age for the full time has been .097 for the white and 1.218 for the colored, showing an increased rate for the past year over the full time of .002 for the white and a decreased rate of .085 for the colored.

III.—LOCAL DISEASES.

The local diseases are those affecting the different organs of the body, and they are divided in eight orders and enumerated in Table No. 1, under 114 specific diseases. These diseases usually consist of congestions or inflammations, atrophies, or hypertrophies, and sometimes deposits of extraneous matter, such as the calculus, or the result of some one of these conditions. In this class we have 1,550 deaths, or 37.48 per cent. of the total mortality; 461 white males, 334 white females, 392 colored males and 363 colored females, being 36.06 per cent. of the total white and 39.10 per cent. of the total colored mortality. From diseases of the nervous system there were 534 decedents, of which 288 were white and 246 colored. From the principal diseases under this order we have the following number of deaths: Acute diseases of the nervous system, 70 white, 37 colored; apoplexy, paralysis, and softening of the brain, 122 white, 66 colored; convulsions (idiopathic), 35 white, 133 colored; insanity, 33 white, 5 colored; epilepsy, 7 white, 5 colored. From diseases of the circulatory organs there were 169 deaths, 136 being of disease of the heart; 73 of the latter were of whites and 63 colored; 11 persons died of aneurism, 6 white, 5 colored; 8 of these aneurisms were of the aorta. Diseases of the respiratory organs furnished 525 of the decedents, 218 being white and 307 colored; of these pneumonia and bronchitis supplied 429—white 164, colored 265. The number of deaths from these two last-mentioned diseases of children under 5 years of age was 284, 81 white and 203 colored. Diseases of the digestive organs were fatal in 211 cases, 129 white, 82 colored. From diseases of the stomach there were 35 white and 8 colored decedents; of the intestines, 24 white, 25 colored; liver, 31 white, 8 colored. There were 14 cases of cirrhosis of the liver and two of gall stones; hernias, 6 white, 1 colored. Of the hernias 2 were scrotal, 3 inguinal, and 2 strangulated, the certifying physician failing to state it in his certificate and neglecting to inform this office upon inquiry being made of him by letter. There were 81 deaths from diseases of the urinary organs, 50 white, 31 colored, of which nephria, or Bright's disease, supplied 37, 22 being white and 15 colored. There were 10 deaths from diseases of the generative organs, all females, and 5 of each color. From diseases of the locomotory and integumentary organs there were 20 deaths, 10 white and 10 colored.

IV.—DEVELOPMENT DISEASES.

There were 453 deaths from diseases of this class—99 white males, 144 white females, 85 colored males, and 125 colored females. Under this class there are 4 orders and 26 diseases. The total deaths in this class constitute 10.95 per cent. of the total mortality, and an annual death-rate of 2.47 per 1,000 for the total population. The deaths in this class aggregate 11.02 per cent. of their total mortality, an annual death-rate of 2 in the 1,000. The colored deaths made 10.88 per cent. of their total mortality and an annual death-rate of 2.47 in the 1,000. The deaths of 200 children, caused by premature birth, or from some lack of proper development during their uterine life, are classed under this head; 103

of them were white and 97 colored; 45 women died from puerperal diseases; 6 from parturition direct, 8 from puerperal convulsions, 10 from puerperal fever, 7 from puerperal septicæmia, and 2 from pregnancy. From old age there were 197 deaths, as follows: 37 white males, 72 white females, 36 colored males, and 52 colored females.

V.—VIOLENCE.

There were 146 violent deaths reported during the year, 53 white males, 31 white females, 38 colored males, and 24 colored females, making 3.53 per cent. of total mortality and an annual death-rate of 0.8 per 1,000 for the total population; for the white population, 3.81 per cent. of their mortality and an annual death-rate of 0.7 per 1,000; and for the colored population 3.21 per cent. of their mortality, or an annual death-rate of 1 per cent. per 1,000. Under this class there are 4 orders and 56 specific causes of death. If the deaths by violence are excluded from the total mortality, the death-rates for the past year from *diseases* would be for total population 21.79 per 1,000; for white population 17.48, and for the colored 30.27. From accidents and negligence there were 116 deaths, some of the principal causes of which are as follows: Injuries from falls, 21 deaths; from the careless use of fire-arms, 6; railroad accidents, 4; drowned, 11; scalds, 4; burns, 15; neglect of the new-born, 4; street accidents, 8; overlaid by mother, 6; careless use of poisons, 4; traumatic tetanus, 4; surgical operations, 2. Two colored males were hanged for murder. The deaths by homicides numbered 17—4 white males, 4 white females, 5 colored males, and 4 colored females; 5 were killed by blows on their heads, 1 by penetrating wound of lung, 6 infanticides, 3 gunshot wounds, 1 by cut throat, and one by wilful neglect. During the year 11 white persons did "wilfully employed being as follows: By hanging, 2; drowning, 1; gunshot seek their own salvation" by committing suicide, the means wound, 1; burning, 1; cut-throat, 1; incised wound of arm, 1; cyanide of potassium, 1; arsenic, 1; corrosive sublimate, 1; laudanum, 1.

Of the table illustrating the births, still-births, and marriages reported it is not deemed necessary to make any remarks, as they sufficiently explain themselves.

Of the map showing the location of deaths but little need be said, except in regard to the one giving the location of the total mortality. The deaths by violence are not located on this map for the reason that the cause of their occurrence cannot be charged to the place of death, as the injury that produced the fatal result may have been received at some distant point, and ought not in any event prove a reflection on the sanitary condition of the place of death. All these locations are from the certificates of death received at this office, and are believed to be in the main correct.

The table of daily mortality and meteorological conditions is on the same plan as the one published in the last report, with the addition of the daily maximum and minimum temperature and range of the same. Sufficient data are not yet obtained to warrant an extensive analysis of mortality and meteorological relations. Yet that these relations do exist cannot be doubted. Although it is not yet time to base any positive statements on the data that have been published, still we may hazard the remark that daily mean temperature ranging above 70°, with a daily range between maximum and minimum of 20°, will very materially increase the deaths of children under 5 years of age, and with a high percentage of humidity and no rainfall there will be an increase of deaths from diseases of the nervous system and an increase of nervous

complications among all diseases. The following explanatory note from last report will sufficiently explain the use of the table:

EXPLANATORY NOTE.—The column of "daily rainfall" indicates that the amount was too small to measure.

In the "mortality" division, classified according to diseases, 75.65 per cent. of all the deaths appear. This division might, possibly, have been improved by a classification as to color of decedents. The number of children dying at the age of 7 days and under are also included in the column of those dying "under 5 years of age." Under the head of "malarial fever" are included the number dying of remittent, intermittent, malarial, congestive, pernicious, typho-malarial, and simple continued fevers. Under "acute diseases of the respiratory organs" are included pneumonia, bronchitis, pleuritis, and congestion of the lungs. Under "diseases of the nervous system" those cases of convulsions, congestion of the brain, &c., following, or complicated with, diarrhoeal diseases, or with any of the different fevers, diphtheria, whooping-cough, &c., are not included. All of these cases are classified under the primary diseases.

The Chief Signal Officer, U. S. A., furnished this office with the following items, under the head of "meteorological conditions": The daily and monthly mean of barometer and temperature (dry-bulb), and humidity; the 7 o'clock a. m., 2 and 9 o'clock p. m. observations of barometer, temperature (both dry- and wet-bulbs), humidity, direction and force of wind, state of weather, and rainfall. The other data were worked out by Dr. Theodore Mead, of this office.

The movements of the barometer are given in inches and decimals of an inch; the signs + and — show rise or fall of barometer and thermometer. The temperature is measured in degrees of the Fahrenheit scale.

The items in the column of "Resultant direction and force of wind" were obtained by platting—using the three daily observations as factors—and these should be read as follows: N. *northerly* and not north; S. *southerly* and not south; NE. *northeasterly* and not northeast, &c. Only when the *mean hourly force* of the wind agrees with the *resultant force*, should the abbreviations be read in the usual manner. On many days each observation indicates a change in direction and force of the wind, and the resultant direction and force only show the distance, in miles and direction, that a particle of air would be from the point of observation, were it acted upon by the united forces and directions of the wind, as ascertained by the three observations during one hour's time.

To obtain the amount of air passing the point of observations (in this case Washington), for any particular day, it will be necessary to multiply by 24 the number in the column of the "Mean force of wind per hour."

The items in the column of "State of weather," are, as near as possible, reasonable summaries of the state of weather as made at the three observations for each day.

For the past year the mean of barometer has been 30.07 inches, mean temperature 53.2°, mean percentage of humidity 70.6, and total rainfall 43.56 inches.

Following this last mentioned table are those illustrating the mortality in this District from September 1, 1874, to June 30, 1881. As the statistics of each year, added to those already tabulated, their interest and value will be increased, more especially in regard to the two diseases, cancer and phthisis. It is hoped that these tables will be found sufficiently self explanatory; they bring out so many valuable facts that their study in detail will amply repay any one interested in the subject.

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.			RECAPITULATION.										Per cent. of each cause to total mortality under 5 years of age.	
			Deaths per 1,000 inhab- itants.	Total by color and sex.			Total by color.			Total by sex.			Total under 5 years.				
				W. C.			W. C.			W. C.			W. C.				
				W.	C.	Total	W.	C.	Total	W.	C.	Total	W.	C.	Total		W.
CLASS I.—ZYMOTIC DISEASES.																	
Order 1.—Miasmatic.																	
Small-pox	1	.024	.008	1	1	2	1	1	2	1	1	2	1	1	2	.193	
Measles	8	.193	.049	1	5	6	6	2	8	2	4	6	5	1	6	.193	
Croup	89	2.152	.528	39	25	64	64	9	73	55	18	73	20	16	36	1.813	
Diphtheria	124	2.998	.874	45	61	106	106	10	116	53	63	116	38	4	42	1.813	
Scarlet fever	26	.629	.206	11	14	25	25	1	26	11	15	26	9	8	17	.411	
Typhoid fever	67	1.620	.363	24	20	44	44	10	54	37	17	54	2	2	4	.048	
Intermittent fever	11	.266	.049	4	2	6	6	4	10	5	6	11	1	1	2	.121	
Remittent fever	17	.411	.025	2	1	3	3	5	8	11	14	25	2	5	7	.193	
Typho-malarial fever	31	.749	.140	11	6	17	17	8	25	17	8	25	2	3	5	.097	
Malarial fever	71	1.717	.264	13	19	32	32	17	49	35	14	49	5	1	6	.846	
Cerebro-spinal meningitis	14	.338	.082	6	4	10	10	2	12	8	4	12	4	1	5	.218	
Dysentery	28	.677	.165	13	7	20	20	4	24	17	7	24	2	1	3	.266	
Diarrhœa	96	2.321	.297	19	17	36	36	27	63	52	11	63	7	3	10	1.547	
Cholera morbus	7	.169	.033	2	2	4	4	3	7	2	5	7	7	30	37	2.756	
infantum	114	2.756	.495	33	27	60	60	35	95	52	43	95	27	19	46	.557	
Enterocolitis	23	.557	.066	6	2	8	8	8	16	13	3	16	2	7	9	.024	
Tonsillitis	2	.048	.008	1	1	2	2	1	3	2	1	3	2	8	10	.435	
Whooping-cough	19	.459	.074	5	4	9	9	8	17	7	10	17	4	2	6	.097	
Erysipelas	12	.290	.066	2	6	8	8	2	10	4	4	10	1	1	2		
Carbuncle	5	.121	.041	4	1	5	5	2	7	4	1	5	1	1	2		
Pyæmia	2	.048	.016	1	1	2	2	1	3	1	1	2	1	1	2		
Hydrophobia	1	.024	.008	1	1	2	2	1	3	1	1	2	1	1	2		
Total miasmatic diseases	768	18.569	3.858	243	225	468	468	155	623	388	235	623	140	106	246	11.460	
Order 2.—Ethetic.																	
Syphilis, congenital	15	.363	.074	4	5	9	9	2	11	8	7	15	4	4	8	.363	
secondary	2	.048	.008	1	1	2	2	1	3	1	1	2	1	1	2		
tertiary	2	.048	.008	1	1	2	2	1	3	1	1	2	1	1	2		
Total ethetic diseases	19	.459	.091	5	6	11	11	4	15	9	10	19	4	4	8	.459	

TABLE I.—DEATHS—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1880.												1881.											
	Total second quarter.						January.						February.						March.					
	W.			C.			W.			C.			W.			C.			W.			C.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
CLASS I.—ZYMOTIC DISEASES. Order 1.— <i>Miasmatic.</i>	Total third quarter.						April.						May.											
	W.			C.			W.			C.			W.			C.			W.			C.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	20	14	8	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	18	35	3	3	3	7	1	4	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	3	4	3	2	3	3	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	8	7	4	3	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	10	5	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	4	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	4	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	4	5	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	4	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	69	84	34	31	12	20	3	6	16	9	12	8	4	4	4	36	33	16	22	12	10	5	6	6
Order 2.— <i>Enthetic.</i>	Total miasmatic diseases																							
	Syphilis, congenital																							
	secondary																							
	tertiary																							
	Total enthetic diseases																							

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

[illegible]

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.					
	70 to 80 years.						80 to 90 years.						90 to 100 years.					
	W.			C.			W.			C.			W.			C.		
	M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.	Single.
CLASS I.—ZYMOTIC DISEASES.																		
Order 1.— <i>Miasmatic.</i>																		
Small-pox.....																		1
Measles.....																		1
Croup.....													2	1				1
Diphtheria.....																		1
Scarlet fever.....													9	8	3	4	8	4
Typhoid fever.....	1												1					1
Intermittent fever.....													2	1	1	2		2
Remittent fever.....													4	5	2	4		1
Typbo-malarial fever.....													3	7	2	1	2	
Malarial fever.....	2	2				2												
Cerebro-spinal meningitis.....																		
Dysentery.....	1						1	1	1	1			6	4			3	1
Diarrhea.....	1										2		3	6			4	1
Cholera morbus.....													1				2	
Cholera morbus infantum.....																	1	1
Enterocolitis.....																		
Tonsillitis.....														1				
Whooping-cough.....																		
Erysipelas.....	1							1										2
Carbuncle.....	1												1					1
Pyæmia.....																		1
Hydrophobia.....																		
Total miasmatic diseases.....	5	6		2	1		2	1	2	1	3		33	33	8	15	26	13
Order 2.— <i>Enthetic.</i>																		
Syphilis, congenital.....																		
secondary.....				1													1	
tertiary.....														1				1
Total enthetic diseases.....				1										1			1	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	SOCIAL RELATIONS.										NATIVITY.																					
	Widow or widower.					Unknown.					District of Columbia.					Other parts of United States.					Foreign.					Unknown.						
	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.	F.	M.	W.	C.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																																
Order 1.— <i>Miasmatic.</i>																																
Small-pox.....																																
Measles.....																																
Croup.....																																
Diphtheria.....																																
Scarlet fever.....																																
Typhoid fever.....	2	1																														
Intermittent fever.....	1																															
Remittent fever.....																																
Typho-malarial fever.....	1																															
Malarial fever.....	2	2	1	3																												
Cerebro-spinal meningitis.....																																
Dysentery.....	1																															
Diarrhœa.....	4	2	1	2																												
Cholera morbus.....	2																															
infantum.....																																
Enterocolitis.....																																
Tonsillitis.....																																
Whooping-cough.....																																
Erysipelas.....	2	1	1																													
Carbuncle.....	1	1																														
Pyæmia.....																																
Hydrophobia.....																																
Total miasmatic diseases.....	9	13	3	7						1																						
Order 2.— <i>Enthetic.</i>																																
Syphilis, congenital.....																																
secondary.....				1																												
tertiary.....																																
Total enthetic diseases.....				1																												

RECAPITULATION.

[illegible]

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.											
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 yrs.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																								
Order 3.— <i>Dietic</i> .																								
Inanition																								
Purpura																								
Delirium tremens																								
Intemperance																								
Total dietic diseases																								
Order 4.— <i>Parasitic</i> .																								
Thrush																								
Total parasitic diseases																								
Total zymotic diseases	5	6	3	1	2	1	3										41	35	9	15	32	14	8	9
CLASS II.—CONSTITUTIONAL DISEASES.																								
Order 1.— <i>Diathetic</i> .																								
Gout																								
Rheumatism	2				1												5	1	3	2	1			1
Rheumatic disease of heart																								
Dropsy			1														1	1	1	2		1		
Anasarca	1																1	2	3	2	1			
Cancer of abdominal organs																								
breast																		4	1	1				
uterus	1																	18	5					
ovary																			1					
stomach	3																2		3	1				
liver			1														1		1	3	1			
scrotum																	1							
face																								
neck																		1			1			
pancreas																		1						
mouth																								
rectum																	1							
fauces																			1			1		
omentum																								

TABLE 1.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	July.			August.			September.			Total first quarter.			October.			November.			December.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
CLASS II.—CONSTITUTIONAL DISEASES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Order 1.— <i>Diathetic</i> —Continued.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Cancer of intestines																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

[illegible]

Order 1.—*Diatetic*—(Continued.

Order 1.— <i>Diathetic</i> —Continued.																			
Cancer of intestines																			
right labium	1																		
parotid gland																			
leg.....																			
bladder																			
ear																			
duodenum																			
thigh																			
throat																			
nose																			
Cholesteræmia.....																			
Hodgkin's disease																			
Anæmia																			
Leucocythæmia.....																			
Total diathetic diseases.....	2	6	1	7	9	20	4	13						1	1			2	
Order 2.— <i>Tubercular</i> .																			
Scrofula	1																		
Psoas abscess																			
Rickets																			
Tuberculosis																			
Marasmus and tabes mesenterica																			
Phthisis pulmonalis	14	11	16	14	53	35	56	66	4	2	6	8	9	2	2	11	12	1	1
Hydrocephalus	1	1																	
Tubercular meningitis																			
enteritis																			
peritonitis																			
bronchitis																			
Hip disease																			
Total tubercular diseases.....	18	13	21	17	61	41	65	78	15	13	23	23	9	8	24	23	5	3	15
Total constitutional class.....	20	19	22	24	70	61	69	91	15	13	23	24	10	8	24	23	5	3	17

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.					
	70 to 80 years. 80 to 90 years. 90 to 100 years. Above 100 yrs.												Married.					
	W.			C.			W.			C.			W.			C.		
	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.
CLASS II.—CONSTITUTIONAL DISEASES.																		
Order 1.— <i>Diathetic</i> —Continued.																		
Cancer of intestines.....																		
right labium.....																		
parotid gland.....																		
leg.....																		
bladder.....																		
ear.....																		
duodenum.....																		
thigh.....																		
throat.....																		
nose.....																		
Cholesteræmia.....																		
Hodgkin's disease.....																		
Anæmia.....																		
Leucocythæmia.....																		
Total diathetic diseases.....	5	5	4	2	1	1	1	1	1	1	1	1	19	30	8	20	7	8
Order 2.— <i>Tubercular</i> .																		
Scrofula.....																		
Psoas abscess.....																		
Rickets.....																		
Tuberculosis.....																		
Marasmus and tabes mesenterica.....																		
Phthisis pulmonalis.....																		
Hydrocephalus.....																		
Tubercular meningitis.....																		
enteritis.....																		
peritonitis.....																		
bronchitis.....																		
Hip disease.....																		
Total tubercular diseases.....	5	3	3	5	1	1	2	1	2	1	2	1	82	84	58	86	42	48
Total constitutional class.....	10	8	3	9	3	1	2	3	1	2	3	1	101	114	66	106	92	56

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1880.												1881.																																																											
	Total second quarter.						January.						February.						March.						Total third quarter.						April.						May.																																			
	W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.																																
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.																																				
CLASS III.—LOCAL DISEASES.																																																																								
Order 1.—Nervous system.																																																																								
Meningitis, cerebral	2	1	3	1	2	3	1	2	3	1	4	2	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3																																				
spinalis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Cerebritis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Cerebral effusion	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Softening of brain	6	6	12	4	5	9	2	3	5	1	4	5	1	4	5	3	1	5	3	1	4	5	3	1	4	5	3	1	4	5	3	1	4	5	3	1	4																																			
Apoplexy	3	3	6	2	3	5	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Paralysis (general)	3	3	6	2	3	5	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Paraplegia	3	3	6	2	3	5	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Hemiplegia	3	3	6	2	3	5	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Progressive locomotor ataxia	3	3	6	2	3	5	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Insanity (monomania, dementia, mania, melancholia)	8	2	10	1	1	2	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Epilepsy	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Sunstroke	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Convulsions	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Laryngismus stridulus	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Tetanus (idiopathic)	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Trismus nascentium	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Cerebral anæmia	6	3	9	3	3	6	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Congestion of brain	6	3	9	3	3	6	1	1	2	1	2	3	1	1	2	1	2	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																			
Sclerosis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Abscess of brain	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Myelitis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Tumor of brain	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Neurasthenia	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Total diseases of nervous system	37	22	59	33	31	64	17	8	25	7	9	14	8	9	13	10	11	6	44	25	26	24	21	13	12	15	28	8	15	4	1	1	1	1	4	1																																				
Order 2.—Circulatory.																																																																								
Carditis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Pericarditis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Endocarditis	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Disease of heart (undefined)	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				
Hydropericardium	1	1	2	1	1	2	1	1	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1																																				

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	RECAPITULATION.															
	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.		Total by color and sex.				Total by color.			Total under 5 years.			Total.	Per cent. of each cause to total mortality under 5 yrs of age.
			W.	C.	M.	F.	M.	F.	W.	M.	F.	M.	F.			
														W.		
CLASS III.—LOCAL DISEASES.																
Order 2.—Circulatory—Continued.																
Aneurism of aorta.....	8	.193	.049	.032	5	1	2		6	2	7	1				
innominate.....	1	.024		.016			1			1	1					
left common iliac.....	1	.024		.016			1			1	1					
internal iliac.....	1	.024		.016			1			1	1					
Dilatation of heart.....	3	.073	.016	.016	2				2	1	2	1				
Hypertrophy of heart.....	13	.314	.041	.129	4	1	5		3	8	9	4				
Valvular diseases of heart.....	76	1.837	.338	.566	23	18	17		18	35	40	36		1		.024
Fatty degeneration of heart.....	9	.218	.074		4	5					4	5				
Angina pectoris.....	8	.193	.066		5	3					5	3				
Embolism.....	5	.121	.033	.016	2	2		1		1	2	3				
Rupture of varicose veins.....	1	.024	.008			1						1				
Pelvic hæmatocœlia.....	1	.024	.008			1						1				
Total circulatory diseases.....	169	4.086	.783	1.197	53	42	41		33	74	94	75		1	1	.072
Order 3.—Respiratory.																
Asthma.....	2	.048	.016		1	1					1	1				
Laryngitis.....	6	.145	.033	.032	2	2	1		1	2	3	3				.048
Bronchitis.....	101	2.442	.247	1.149	18	12	33		38	71	51	50		14	8	2.128
Pleurisy.....	4	.097	.033		1	1					3	1				
Hydrothorax.....	1	.024	.008		1						1					
Empyema.....	1	.024	.008		1						1					
Pneumonia.....	328	7.930	1.105	3.139	76	58	98		96	194	174	154		27	22	186
Congestion of the lungs.....	68	1.644	.280	.550	16	18	16		18	34	32	36		5	5	4.497
Hæmorrhage of the lungs.....	12	.290	.049	.097	2	4	4		2	6	6	6				.580
Abscess of the lungs.....	2	.048	.016			2						2			1	.024
Total respiratory diseases.....	525	12.693	1.797	4.968	120	98	152		155	307	272	253		47	36	301
Order 4.—Digestive.																
Gastritis.....	27	.653	.190	.065	12	11	2		2	4	14	13		2	2	5
Stomatitis.....	4	.097		.065			3		1	4	3	1				1
Pharyngitis.....	1	.024		.016			1			1	1					
Enteritis.....	25	.604	.132	.146	4	12	3		6	9	7	18		3	5	12

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

1880.

Cause of death.	July.			August.			September.			Total first quarter.			October.			November.			December.			
	W. C. W.			W. C. W.			W. C. W.			W. C. W.			W. C. W.			W. C. W.			W. C. W.			
	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	M. F. M.	F. M. F.	C.	
CLASS III.—LOCAL DISEASES.																						
Order 2.— <i>Circulatory</i> —Continued.																						
Aneurism of aorta.....																						
innominate.....																						
left common iliac.....																						
internal iliac.....																						
Dilatation of heart.....																						
Hypertrophy of heart.....																						
Valvular diseases of heart.....	3	2	3		2	1		2	3	2	2	2	8	5	5	4	1		1	1	1	
Fatty degeneration of heart.....																						
Angina pectoris.....																						
Embolism.....													1								1	
Rupture of varicose veins.....																						
Pelvic hæmatocœlia.....																						
Total circulatory diseases.....	4	4	6	1	3	2	1	6	5	4	2	3	12	10	9	10	2	1	7	2	4	1
Order 3.— <i>Respiratory</i> .																						
Asthma.....																						
Laryngitis.....																						
Bronchitis.....																						
Pleurisy.....																						
Hydrothorax.....																						
Empyema.....																						
Pneumonia.....	2	3	4	9	2		4	5	1	1	2	3	5	4	10	17	1	1	7	3	8	2
Congestion of the lungs.....																						
Hæmorrhage of the lungs.....																						
Abscess of the lungs.....																						
Total respiratory diseases.....	4	5	7	14	5	2	6	10	5	6	8	8	14	13	21	32	2	4	10	7	11	6
Order 4.— <i>Digestive</i> .																						
Gastritis.....																						
Stomatitis.....																						
Pharyngitis.....																						
Enteritis.....																						
Total digestive diseases.....	2	1			1																	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

1880.												1881.																	
Total second quarter.												Total third quarter.																	
January.												April.																	
February.												May.																	
March.																													
Cause of death.																													
W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																													
Order 2.—Circulatory—Continued.																													
Aneurism of aorta.....																													
3				1																									
innominate.....																													
left common iliac.....																													
internal iliac.....																													
Dilatation of heart.....																													
1				1																									
Hypertrophy of heart.....																													
3	3	5	2	1	1	1	1	2	1	3	2	1	3	2	3	2	1	3	6	6	4	1	1	3	4	1	1	1	
Valvular diseases of heart.....																													
Fatty degeneration of heart.....																													
3				1																									
Angina pectoris.....																													
1																													
Embolism.....																													
1																													
Rupture of varicose veins.....																													
1																													
Pelvic hæmatocœlia.....																													
Total circulatory diseases.....																													
11	6	10	8	5	2	3	2	3	6	4	2	6	9	8	4	4	14	17	15	8	4	3	4	5	11	3	2	1	
Order 3.—Respiratory.																													
Asthma.....																													
1	1																												
Laryngitis.....																													
2	2	9	9	1	3	3	4	5	1	5	3	2	2	5	4														
Bronchitis.....																													
1	1																												
Pleurisy.....																													
Hydrothorax.....																													
Empyema.....																													
19	10	18	21	11	9	10	12	11	7	12	11	11	13	27	11	33	1												
Pneumonia.....																													
5	6	3	5	1	3	1	1	1	5	3	3	2		2	3		4	8	6	7	1	1	1	1	1	1	1		
Congestion of the lungs.....																													
Hæmorrhage of the lungs.....																													
Abscess of the lungs.....																													
Total respiratory diseases.....																													
28	20	30	35	13	15	14	18	17	15	20	17	16	15	34	18	46	45	68	53	16	10	21	18	9	9	11	8		
Order 4.—Digestive.																													
Gastritis.....																													
2	4				1																								
Stomatitis.....																													
Pharyngitis.....																													
2			2			1	1			1	1		4					4	2	2		1					1		
Enteritis.....																													

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1881.																							
	June.						Total fourth quarter.						Under 1 year.						1 to 2 years.					
	W.			C.			W.			C.			W.			C.			W.			C.		
	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.
CLASS III.—LOCAL DISEASES.																								
Order 2.—Circulatory—Continued.																								
Aneurism of aorta.....							1	1	1															
innominate.....																								
left common iliac.....																								
internal iliac.....																								
Dilatation of heart.....							1																	
Hypertrophy of heart.....							1	6	4	3	5													
Valvular diseases of heart.....	1	2			1		4	1																
Fatty degeneration of heart.....							1	1	1															
Angina pectoris.....	1																							
Embolism.....							1																	
Rupture of varicose veins.....																								
Pelvic hamatocele.....																								
Total circulatory diseases.....	1	3	1	1	1	16	9	7	7				1											
Order 3.—Respiratory.																								
Asthma.....							1																	
Laryngitis.....							1						1											
Bronchitis.....	1					5	1	8	8	9	6	16	22	4	2	8	10						1	
Pleurisy.....																								
Hydrothorax.....	1					1																		
Empyema.....							15	21	24	17	10	33	43	5	7	19	14	3	3	14	8	2	1	5
Pneumonia.....	2	1	1	6	19	3	6	1	1	3	3	1	5	1		2	2			1	1	1	1	1
Congestion of the lungs.....	3			3	6		2	2																
Hemorrhage of the lungs.....																								
Abscess of the lungs.....																								
Total respiratory diseases.....	7	1	1	9	32	20	33	35	30	19	50	71	10	9	29	26	3	4	21	12	3	2	7	1
Order 4.—Digestive.																								
Gastritis.....	2	1		2	6	5	2	2																
Stomatitis.....							1																	
Pharyngitis.....																								
Enteritis.....	1	1				3	1	1		3	3	2		1	1	1								1

TABLE L.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.											
	70 to 80 years.												80 to 90 years.											
	90 to 100 years.												Above 100 yrs.											
	W.				C.				W.				C.				W.				C.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Class III.—LOCAL DISEASES.																								
Order 2.— <i>Circulatory</i> —Continued.																								
Aneurism of aorta.....																								
innominate.....																								
left common iliac.....																								
internal iliac.....																								
Dilatation of heart.....	1																							
Hypertrophy of heart.....																								
Valvular diseases of heart.....	3	5	1	3		1																		
Fatty degeneration of heart.....	1	2																						
Angina pectoris.....	1	1				1																		
Embolism.....																								
Rupture of varicose veins.....	1																							
Pelvic hæmatocele.....																								
Total circulatory diseases.....	7	10	3	6	3	1	1	1									28	14	26	18	11	6	6	6
Order 3.— <i>Respiratory</i> .																								
Asthma.....																								
Laryngitis.....																								
Bronchitis.....	1	1															1	1	1	2	1	1	1	1
Pleurisy.....																								
Hydrothorax.....																								
Empyema.....																								
Pneumonia.....	5	5	2	2		2	5	3									16	14	13	12	4	6	5	5
Congestion of the lungs.....	2	2	2			2		2									4	6	4	1	1	1	3	3
Hæmorrhage of the lungs.....																	2	3	1					
Abscess of the lungs.....	1																							
Total respiratory diseases.....	8	9	4	2	1	2	5	5									46	24	24	20	16	6	8	9
Order 4.— <i>Digestive</i> .																								
Gastritis.....																								
Stomatitis.....	5	5				1											6	5	1	1	3	1		
Pharyngitis.....																								
Enteritis.....				2													1	2						1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.		Total by color and sex.						Total by color.			Total under 5 years.						Per cent. of each cause to total mortality under 5 yrs of age.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			Deaths per 1,000 inhabitants.		Total by color and sex.						Total by color.			Total under 5 years.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			W. C.		W.		C.				W. C.			W. C.		W. C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			W.	C.	M.	F.	M.	F.	C.	W.	C.	M.	F.	M.	F.	M.	F.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Gastro-enteritis.....	14	.338	.091	.048	7	4		3	11	3	7	7	7	3	2		2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1880.																							
	July.			August.			September.			Total first quarter.			October.			November.			December.					
	W.	C.	M.	W.	C.	M.	W.	C.	M.	W.	C.	M.	W.	C.	M.	W.	C.	M.	W.	C.	M.	W.	C.	M.
CLASS III.—LOCAL DISEASES.																								
Order 4.—Digestive—Continued.																								
Gastro-enteritis.....	1			1						2			2						1		1			1
Peritonitis.....	1						1			2			1						1					
Colonitis.....							1																	
Ascites.....																								
Icterus.....																								
Congestion of intestines.....				1			1																	
Obstruction of intestines.....																								
Hemorrhage of intestines.....																								
Hernia, scrotal.....							1																	
Hernia, inguinal.....							1			1														
strangulated.....																								
Ileus.....																								
Colic.....				1																				
Gastric catarrh.....																								
Intussusception.....				1																				
Ulceration of stomach.....										1														
Hepatitis.....	1			2			2			3														
Hypertrophy of the liver.....							1																	
Abscess of the liver.....	1									1														
Disease of the liver (undefined).....																								
Jaundice.....							1																	
Cirrhosis of the liver.....							3			3														
Dyspepsia.....	1						1																	
Dentition.....	1	2	3	2	4	1	1			2	6	7	1	1	2		1							
Fistula.....																								
Stricture of œsophagus.....																								
Gall stones.....																								
Typhlitis.....																								
Neuralgia of intestines.....																								
Total digestive diseases.....	7	7	5	4	4	4	9	4	7	18	14	6	6	3	6	5	2		2	3	5			2

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.			10 to 20 years.			20 to 30 years.			30 to 40 years.			40 to 50 years.			50 to 60 years.			60 to 70 years.									
	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.				
CLASS III.—LOCAL DISEASES.																												
Order 4.—Digestive—Continued.																												
Gastro enteritis.....																												
Peritonitis.....		1																										
Colonitis.....																												
Ascites.....																												
Icterus.....																												
Congestion of intestines.....																												
Obstruction of intestines.....																												
Hemorrhage of intestines.....																												
Hernia, scrotal.....																												
inguinal.....																												
strangulated.....																												
Pneus.....																												
Colic.....																												
Gastric catarrh.....																												
Intussusception.....																												
Ulceration of stomach.....																												
Hepatitis.....																												
Hypertrophy of the liver.....																												
Abscess of the liver.....																												
Disease of the liver (undefined).....																												
Jaundice.....																												
Cirrhosis of the liver.....																												
Dyspepsia.....																												
Dentition.....																												
Fistula.....																												
Stricture of esophagus.....																												
Gall stones.....																												
Typhlitis.....																												
Neuralgia of intestines.....																												
Total digestive diseases	1	2		1	1	1	1	1	1	2	2	1	3	4	6	2	1	8	9	5	3	13	5	4	9	7	3	2

TABLE I.—DEATHS—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	SOCIAL RELATIONS.						NATIVITY.											
	Widow or widower.			Unknown.			District of Columbia.				Other parts of United States.				Foreign.			
	W.	M.	F.	W.	M.	F.	W.	M.	F.	C.	W.	M.	F.	C.	W.	M.	F.	C.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																		
Order 4.— <i>Digestive</i> —Continued.																		
Gastro-enteritis.....	2						3	2			2	2			2			
Peritonitis.....	1	1						2			2				1			
Colonitis.....																		
Ascites.....			1						1									
Icterus.....																		
Congestion of intestines.....																		
Obstruction of intestines.....	1								1						1	2		
Hemorrhage of intestines.....								1										
Hernia, scrotal.....																		
inguinal.....	1																	
strangulated.....																		
Ileus.....							1											
Colic.....																		
Gastric catarrh.....	1																	
Intussusception.....	1	1					2											
Ulceration of stomach.....									1									
Hepatitis.....	1							1										
Hypertrophy of the liver.....	1						1											
Abscess of the liver.....	1																	
Disease of the liver (undefined).....		1																
Jaundice.....	1																	
Cirrhosis of the liver.....	1	1					2											
Dyspepsia.....	1						1											
Dentition.....							7	6	10	13								
Fistula.....			1															
Stricture of œsophagus.....																		
Gall stones.....	1																	
Typhlitis.....	1																	
Neuralgia of intestines.....																		
Total digestive diseases.....	8	17	3	5			1	25	21	27	23	19	19	11	21	20		

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.		RECAPITULATION.										Per cent. of each cause to total mortality by age.					
			Deaths per 1,000 inhabitants.		Total by color and sex.					Total by color.						Total under 5 years.				
			W.	C.	W.		C.		Total by sex.	W.		C.		W.		C.				
					M.	F.	M.	F.		M.	F.	M.	F.	M.		F.	M.	F.		
CLASS III.—LOCAL DISEASES.																				
Order 5.— <i>Urinary system.</i>																				
Nephritis.....	10	.242	.025	.113	1	2	3	4	3	7	4	6	1	1	1	3	.072			
Nephria (Bright's disease).....	37	.895	.181	.243	12	10	9	6	22	15	21	16	.....	1	.....	1	.024			
Congestion of the kidneys.....	1	.024	.....	.016	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....			
Uremia.....	9	.218	.058	.032	4	3	2	.....	7	2	6	3	.....	1	.....	1	.024			
Diabetes.....	4	.097	.033	.....	3	1	.....	.....	4	.....	3	1	.....	.....	.....	.....	.....			
Calculus.....	2	.048	.016	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....			
Cystitis.....	11	.266	.082	.016	9	1	1	.....	10	1	10	1	.....	.....	.....	.....	.....			
Albuminuria.....	3	.072	.....	.049	.....	.....	3	.....	.....	3	3	.....	.....	.....	.....	.....	.....			
Hypertrophy of the prostate.....	2	.048	.016	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....			
Kidney disease (undefined).....	2	.048	.....	.032	.....	.....	.....	2	.....	2	.....	2	.....	.....	.....	.....	.....			
Total diseases of the urinary system.....	81	1.958	.412	.502	33	17	18	13	50	31	51	30	.....	1	3	1	.121			
Order 6.— <i>Generative organs.</i>																				
Ovarian tumor.....	4	.097	.016	.032	.....	2	.....	2	2	2	.....	4	.....	.....	.....	.....	.....			
Metropéritonitis.....	2	.048	.008	.016	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....			
Menorrhagia.....	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....			
Uterine tumor.....	3	.073	.008	.032	.....	1	.....	2	1	2	.....	3	.....	.....	.....	.....	.....			
Total diseases of the generative organs.....	10	.242	.041	.081	.....	5	.....	5	5	5	.....	10	.....	.....	.....	.....	.....			
Order 7.— <i>Osseous and locomotory.</i>																				
Caries of femur and knee joint.....	1	.024	.....	.016	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	1	.024			
Caries vertebrae.....	2	.048	.....	.032	.....	.....	.....	2	.....	2	.....	2	.....	.....	.....	.....	.....			
Orbital abscess.....	1	.024	.....	.016	.....	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....			
Mollities ossium.....	1	.024	.....	.016	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	1	.024			
Caries of dorsal vertebrae.....	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.024			
Rheumatic arthritis.....	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.024			
Pelvic abscess.....	1	.024	.....	.016	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....			
Total osseous and locomotory diseases.....	8	.193	.016	.097	2	.....	1	5	2	6	3	5	1	.....	2	3	.072			

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1880.												1881.											
	Total second quarter.						January.						February.						March.					
	W.			C.			W.			C.			W.			C.			W.			C.		
	Total third quarter.			April.			May.																	
	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.
CLASS III.—LOCAL DISEASES.																								
Order 5.— <i>Urinary system.</i>																								
Nephritis.....	1			2									1											
Nephria (Bright's disease).....	4	1	1										3	2										
Congestion of the kidneys.....																								
Uræmia.....	1												2											
Diabetes.....	1	1											1											
Calculus.....	1												1											
Cystitis.....	3												1											
Albuminuria.....																								
Hypertrophy of the prostate.....																								
Kidney disease (undefined).....																								
Total diseases of the urinary system.....	9	4	1	2	5	2							7	3										
Order 6.— <i>Generative organs.</i>																								
Ovarian tumor.....																								
Metropéritonitis.....	1																							
Menorrhagia.....																								
Uterine tumor.....																								
Total diseases of the generative organs.....																								
Order 7.— <i>Osseous and locomotory.</i>																								
Caries of femur and knee joint.....																								
Caries vertebræ.....																								
Orbital abscess.....																								
Mollities ossium.....																								
Caries of dorsal vertebræ.....	1																							
Rheumatic arthritis.....	1																							
Pelvic abscess.....																								
Total osseous and locomotory diseases.....	2																							

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	SOCIAL RELATIONS.						NATIVITY.											
	Widow or widower.			Unknown.			District of Columbia.				Other parts of United States.				Foreign.			
	W.	C.	C.	W.	C.	C.	W.	M.	F.	C.	W.	M.	F.	C.	W.	M.	F.	C.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																		
Order 5.— <i>Urinary system.</i>																		
Nephritis.....																		
Nephria (Bright's disease).....	2	4	1	3			2		2		1		9			3		
Congestion of the kidneys.....								5	3			5				4		
Uremia.....	1						1				2					1		
Diabetes.....	1						2	1				2						
Calculus.....																		
Cystitis.....	1		1				1	1			2					1		
Albuminuria.....																		
Hypertrophy of the prostate.....							1				1					3		
Kidney disease (undefined).....																		
Total diseases of the urinary system.....	3	6	2	3			7	9	4	4	16	7	14	9	10	1		
Order 6.— <i>Generative organs.</i>																		
Ovarian tumor.....																		
Metropéritonitis.....										1		1				1		
Menorrhagia.....	1											1						
Uterine tumor.....				1								1						
Total diseases of the generative organs.....	1			1						1		4				1		
Order 7.— <i>Osseous and locomotory.</i>																		
Caries of femur and knee-joint.....																		
Caries vertebræ.....																		
Orbital abscess.....																		
Mollities ossium.....																		
Caries of dorsal vertebræ.....																		
Rheumatic arthritis.....							1											
Pelvic abscess.....																		
Total osseous and locomotory diseases.....							1			4			1			1		

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	DEATH-RATE.		RECAPITULATION.																	
	Total deaths from each cause.	Per cent. of each cause to total mortality.	Deaths per 1,000 inhab- itants.						Total by color and sex.			Total by color.			Total by sex.			Per cent. of each cause to total mor- tality under 5 yrs of age.		
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	Total.					
																W.			C.	
CLASS III.—LOCAL DISEASES.																				
Order 8.—Integumentary.																				
Cellulitis	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Ulcer of leg	2	.048	.008	.016	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Bulla	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Abscess of thigh	1	.024	.....	.016	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
neck	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
leg	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Abscess	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Perineal abscess	1	.024	.....	.016	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Lumbar abscess	3	.073	.016	.016	1	1	1	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.024
Total integumentary diseases	12	.290	.066	.065	3	5	4	.....	8	4	7	5	2	2	1	.....	.....	.....	.....	.121
Total local diseases	1,550	37.476	6.554	12.217	461	334	392	363	795	755	853	697	117	90	219	209	635	.....	.....	15.353
CLASS IV.—DEVELOPMENTAL DISEASES.																				
Order 1.—Children.																				
Premature birth	71	1.717	.330	.502	25	15	18	13	40	31	43	28	25	15	18	13	71	.....	.....	1.717
Preternatural birth	4	.097	.033	.....	1	3	.....	.....	4	.....	1	3	1	3	.....	.....	4	.....	.....	.097
Cyanosis	15	.363	.099	.048	5	7	3	.....	12	3	8	7	5	7	3	.....	15	.....	.....	.363
Umbilical hemorrhage	3	.072	.....	.048	.....	.....	.....	3	.....	3	.....	3	.....	.....	.....	3	.....	.....	.....	.072
Atelectasis pulmonum	6	.145	.049	.....	4	2	.....	.....	6	.....	4	2	4	2	.....	.....	6	.....	.....	.145
Spina bifida	5	.121	.033	.016	2	2	1	.....	4	1	3	2	2	2	1	.....	5	.....	.....	.121
Congenital debility	94	2.273	.288	.955	21	14	27	32	35	59	48	46	21	14	27	32	94	.....	.....	2.273
Hamophilia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.024
Icterus neonatorum	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.024
Total diseases of children	200	4.836	.849	1.570	58	45	49	48	103	97	107	93	58	45	49	48	200	.....	.....	4.836
Order 2.—Women.																				
Puerperal thrombosis	1	.024	.008	.....	1	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Parturition	6	.145	.016	.065	2	2	.....	4	2	4	.....	6	.....	.....	.....	.....	6	.....	.....	.....
Puerperal convulsions	8	.193	.016	.097	2	2	.....	6	2	6	.....	8	.....	.....	.....	.....	8	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

1880.												1881.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Cause of death.	Total second quarter.						January.						February.						March.						Total third quarter.						April.						May.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
CLASS III.—LOCAL DISEASES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Order 8.—Integumentary.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Cellulitis.....	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1881.											
	June.						Total fourth quarter.					
	W.			C.			W.			C.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES. Order 8.— <i>Integumentary.</i>	Under 1 year.						1 to 2 years.					
	W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	3 to 4 years.						4 to 5 years.					
	W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Total integumentary diseases						Total local diseases					
	25	18	20	23	132	83	96	80	78	56	140	151
	3	1	3	1	4	2	4	1	25	15	18	13
	1	1	1	1	2	1	2	1	1	3	3	3
CLASS IV.—DEVELOPMENTAL DISEASES. Order 1.— <i>Children.</i>	Premature birth						Premature birth					
	W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Prematural birth						Prematural birth					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Cyanosis						Cyanosis					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Umbilical hemorrhage						Umbilical hemorrhage					
CLASS V.—DEVELOPMENTAL DISEASES. Order 2.— <i>Women.</i>	Prematural birth						Prematural birth					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Atelectasis pulmonum						Atelectasis pulmonum					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Spina bifida						Spina bifida					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Congenital debility						Congenital debility					
CLASS VI.—DEVELOPMENTAL DISEASES. Order 3.— <i>Women.</i>	Hæmophilia						Hæmophilia					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Icterus neonatorum						Icterus neonatorum					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Total diseases of children						Total diseases of children					
	7	3	6	2	15	6	15	5	58	45	48	48
	1	1	1	1	1	1	1	1	1	1	1	1
	Puerperal thrombosis						Puerperal thrombosis					
CLASS VII.—DEVELOPMENTAL DISEASES. Order 4.— <i>Women.</i>	Parturition						Parturition					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Puerperal convulsions						Puerperal convulsions					
	W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Total diseases of women						Total diseases of women					
	1	1	1	1	1	1	1	1	1	1	1	1
	Total diseases of children and women						Total diseases of children and women					
	8	4	7	3	16	7	16	6	66	50	56	56

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	Total deaths from each cause.	Per cent. of each mortality.	DEATH-RATE.		RECAPITULATION.						Per cent. of each cause to total mortality under 5 yrs of age.					
			Deaths per 1,000 inhabitants.		Total by color and sex.		Total by color.		Total by sex.			Total under 5 years.		Total.		
			W.	C.	W.	C.	W.	C.	M.	F.		M.	F.			
CLASS IV.—DEVELOPMENTAL DISEASES.																
Order 2.—Women.																
Puerperal fever.....	10	.242	.058	.048	7	.....	3	7	.....	3	10	.....	.....			
septicæmia.....	7	.169	.033	.048	4	.....	3	4	.....	3	7	.....	.....			
metro-peritonitis.....	2	.048	.....	.032	.....	.....	2	.....	.....	2	2	.....	.....			
metritis.....	1	.024	.008	.....	1	.....	.....	1	.....	.....	1	.....	.....			
hemorrhage.....	2	.048	.....	.032	.....	.....	2	.....	.....	2	2	.....	.....			
peritonitis.....	2	.048	.....	.032	.....	.....	2	.....	.....	2	2	.....	.....			
Placenta prævia.....	1	.024	.008	.....	1	.....	.....	1	.....	.....	1	.....	.....			
Miscarriage.....	1	.024	.008	.....	1	.....	.....	1	.....	.....	1	.....	.....			
Phlegmasia dolens.....	1	.024	.008	.....	1	.....	.....	1	.....	.....	1	.....	.....			
Pregnancy.....	2	.048	.016	.....	2	.....	.....	2	.....	.....	2	.....	.....			
Post partum hemorrhage.....	1	.024	.....	.016	.....	.....	1	.....	.....	1	1	.....	.....			
Total diseases of women.....	45	1.088	.181	.372	22	.....	23	22	23	.....	45	.....	.....			
Order 3.—Old age.																
Senile debility.....	191	4.618	.866	1.391	36	69	36	105	86	72	119	.....	.....			
Gangrene.....	6	.145	.033	.032	1	3	.....	4	2	1	5	.....	.....			
Total diseases of old age.....	197	4.763	.899	1.424	37	72	36	109	88	73	124	.....	.....			
Order 4.—Nutrition.																
Debility or asthenia.....	11	.266	.074	.032	4	5	.....	9	2	4	7	.....	.....			
Total nutrition diseases.....	11	.266	.074	.032	4	5	.....	9	2	4	7	.....	.....			
Total developmental diseases.....	453	10.953	2.003	3.398	99	144	85	243	210	184	269	58	48	200	4.836	
CLASS V.—VIOLENCE.																
Order 1.—Accidents and negligence.																
Injury from falls.....	21	.508	.148	.049	10	8	3	18	3	13	8	3	1		5	.121
Gunshot wound.....	6	.145	.049		5	1		6		5	1					
Railroad accident.....	3	.073	.025		3			3		3						
Fall of lumber.....	1	.024	.008		1			1		1						
Drowned.....	11	.266	.058	.065	5	2	4	7	4	9	2				1	.024
Scald.....	4	.097	.016	.032	1	1	1	2	2	2	2		1	1	1	.073
Neglect at birth.....	3	.073		.049			1		3	1	2		1	1	2	.073
Street-car accident.....	1	.024	.008		1			1		1		1			1	.024

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.											
	5 to 10 years.			10 to 20 years.			20 to 30 years.			30 to 40 years.		
	W.		C.	W.		C.	W.		C.	W.		C.
	M.	F.		M.	F.		M.	F.		M.	F.	
CLASS IV.—DEVELOPMENTAL DISEASES.												
Order 2.—Women.												
Puerperal fever.....												
septicæmia.....					1			5			3	
metro peritonitis.....											2	
metritis.....											3	
hemorrhage.....											1	
peritonitis.....											2	
Placenta prævia.....											1	
Miscarriage.....											1	
Phlegmatæ dolens.....											1	
Pregnancy.....											2	
Postpartum hemorrhage.....											1	
Total diseases of women.....				1		2		8		13	12	8
Order 3.—Old age.												
Senile debility.....												
Gangrene.....												
Total diseases of old age.....												
Order 4.—Nutrition.												
Debility or asthenia.....											1	
Total nutrition diseases.....											3	
Total developmental diseases.....				1		2		8		13	13	9
CLASS V.—VIOLENCE.												
Order 1.—Accidents and negligence.												
Injury from falls.....	1											
Gunshot wound.....				2	1							
Railroad accident.....				1								
Fall of lumber.....												
Drowned.....	2											
Scald.....												
Neglect at birth.....												
Street-car accident.....												

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.		Total by color and sex.						Total by color.			Total under 5 years.						Per cent of each cause to total mortality by sexage.
			Deaths per 1,000 inhabitants.		C.						W.			Total by sex.						
			W.	C.	W.						C.			Total by sex.						
					M.	F.	M.	F.	W.	C.	M.	F.	C.	M.	F.	M.	F.	C.		
CLASS V.—VIOLENCE.																				
Order 1.—Accidents and negligence—Continued.																				
Run over by street roller	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.024
Bite of spider	1	.024	.008	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.024
Lead poison	2	.048	.016	.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.048
Run over by wagon	2	.048	.....	.032	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.048
Drinking concentrated lye	2	.048	.....	.032	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.048
Burns	15	.363	.049	.146	1	5	3	6	6	9	4	11	2	4	2	2	2	3	5	.121
Smothered	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Choked while eating	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Thrown from a buggy	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fracture of the femur	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Run over by railroad cars	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Traumatic tetanus	4	.097	.008	.049	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Peritonitis from injury	1	.024	.008	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.048
Neglect	3	.073	.008	.032	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blow upon head	2	.048	.008	.016	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Overlaid by mother	6	.145	.008	.081	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.145
Kick of mule	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bite of insect	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Amputation of foot	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fracture of skull	4	.097	.033	.....	3	1	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Overdose of morphine and hydrate of chloral	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crushed under falling tree	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Overdose of morphine	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Injury of spine	1	.024	.008	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Amputation of leg	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Umbilical hemorrhage	5	.121	.....	.081	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.121
Fracture of neck of femur	1	.024	.008	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Concussion of brain	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Injury to perineum	1	.024	.008	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.024
Laceration of liver	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crushed in elevator	1	.024	.....	.016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total accidents and negligence	116	2.805	.536	.825	42	23	31	20	65	51	73	43	6	6	6	12	14	38	.....	.919

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1880.						1881.														
	Total second quarter.			January.			February.			March.			Total third quarter.			April.			May.		
	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.
	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.

TABLE 1.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	1881.											
	June.			Total fourth quarter.			Under 1 year.			1 to 2 years.		
	AGE OF DECEDENT.			2 to 3 years.			3 to 4 years.			4 to 5 years.		
	W.	M.	C.	W.	M.	C.	W.	M.	C.	W.	M.	C.
CLASS V.—VIOLENCE.	M.	F.		M.	F.		M.	F.		M.	F.	
Order 1.— <i>Accidents and negligence</i> —Continued.												
Run over by street roller												
Bite of spider												
Lead-poison												
Run over by wagon												
Drinking concentrated lye												
Burns												
Smothered												
Choked while eating												
Thrown from a buggy												
Fracture of the femur												
Run over by railroad cars												
Traumatic tetanus												
Peritonitis from injury												
Neglect												
Blow upon head												
Overlaid by mother												
Kick of mule												
Bite of insect												
Amputation of foot												
Fracture of skull												
Overdose of morphine and hydrate of chloral												
Crushed under falling tree												
Overdose of morphine												
Injury of spine												
Amputation of leg												
Umbilical hemorrhage												
Fracture of neck of femur												
Concussion of brain												
Injury to perineum												
Laceration of liver												
Crushed in elevator												
Total accidents and negligence	2	4	...	5	6	4	2	2	6	11	3	1

TABLE I.—DEATH.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																							
	5 to 10 years.			10 to 20 years.			20 to 30 years.			30 to 40 years.			40 to 50 years.			50 to 60 years.			60 to 70 years.					
	W.	M.	C.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.			
Run over by street roller	1																							
Bite of spider																								
Lard-poison										1														
Run over by wagon		2																						
Drinking concentrated lye																								
Burns	1	3	1	1						2									1					
Smothered																								
Choked while eating																								
Thrown from a buggy																			1					
Fracture of the femur																								
Run over by railroad cars																								
Traumatic tetanus	1									1											1			
Peritonitis from injury										1														
Neglect																			1					
Blow upon head										1														
Overlaid by mother																								
Kick of mule																								
Bite of insect																								
Amputation of foot																								
Fracture of skull																			1					
Overdose of morphine and hydrate of chloral																			1					
Crushed under falling tree		1																						
Overdose of morphine																								
Injury of spine	1																							
Amputation of leg																								
Umbilical hemorrhage																								
Fracture of neck of femur																			1					
Concussion of brain																								
Injury to perineum									1															
Laceration of liver																								
Crushed in elevator																								
Total accidents and negligence	3	4	6	1	5	1	1	1	4	4	2	9	2	3	7	3	2	2	5	4	1	1		

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.											
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 yrs.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																								
Order 1.—Accidents and negligence—Continued.																								
Run over by street roller																								
Bite of spider																								
Lead-poison																								
Run over by wagon																								
Drinking concentrated lye																								
Burns																								
Smothered																								
Choked while eating																								
Thrown from a buggy																								
Fracture of the femur																								
Run over by railroad cars																								
Traumatic tetanus																								
Peritonitis from injury																								
Neglect																								
Blow upon head																								
Overlaid by mother																								
Kick of mule																								
Bite of insect																								
Amputation of foot																								
Fracture of skull																								
Overdose of morphine and hydrate of chloral																								
Crushed under falling tree																								
Overdose of morphine																								
Injury of spine																								
Amputation of leg																								
Umbilical hemorrhage																								
Fracture of neck of femur																								
Concussion of brain																								
Injury to perineum																								
Laceration of liver																								
Crushed in elevator																								
Total accidents and negligence																								

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	SOCIAL RELATIONS.										NATIVITY.																			
	Widow or widower.					Unknown.					District of Columbia.					Other parts of United States.					Foreign.					Unknown.				
	W.		C.		F.	W.		C.		F.	W.		C.		F.	W.		C.		F.	W.		C.		F.	W.		C.		
	M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.	M.	F.
	M.	F.	M.	F.	C.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	W.	C.	M.	F.	
CLASS V.—VIOLENCE.																														
Order 1.— <i>Accidents and negligence</i> —Continued.																														
Run over by street roller																														
Bite of spider																														
Lead-poison	1																													
Run over by wagon																														
Drinking concentrated lye																														
Burns																														
Smothered																														
Choked while eating																														
Thrown from a buggy																														
Fracture of the femur																														
Run over by railroad cars																														
Traumatic tetanus																														
Peritonitis from injury																														
Neglect																														
Blow upon head																														
Overlaid by mother																														
Kick of mule																														
Bite of insect																														
Amputation of foot																														
Fracture of skull	1	1																												
Overdose of morphine and hydrate of chloral																														
Crushed under falling tree																														
Overdose of morphine																														
Injury of spine																														
Amputation of leg																														
Umbilical hemorrhage																														
Fracture of neck of femur																														
Concussion of brain																														
Injury to perineum																														
Laceration of liver																														
Crushed in elevator																														
Total accidents and negligence	2	6	1	1		2				17	11	20	17	13	8	11	3	11	4		1									

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																				
	5 to 10 years.			10 to 20 years.			20 to 30 years.			30 to 40 years.			40 to 50 years.			50 to 60 years.			60 to 70 years.		
	W.		C.	W.		C.	W.		C.	W.		C.	W.		C.	W.		C.	W.		C.
	M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.	
CLASS V.—VIOLENCE. Order 2.—Judicial execution. Hanging..... Total judicial execution																					
Order 3.—Homicide. Fracture of skull Punctured wound of lung..... Infanticide Gunshot wound..... Incised wound of throat Willful neglect..... Total homicide																					
Order 4.—Suicide. Drowning Gunshot wound..... Burns Cyanide potassium..... Hanging Incised wound of throat..... arm Arsenic..... Corrosive sublimate..... Laudanum..... Total suicides																					
Total violence																					
Total violence																					

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.												
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 yrs.				Married.				Single.				
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
CLASS V.—VIOLENCE.																									
Order 2.—Judicial execution.																									
Hanging.....																									
Total judicial execution.....																									
Order 3.—Homicide.																									
Fracture of skull.....																									
Punctured wound of lung.....																									
Infanticide.....																									
Gunshot wound.....																									
Incised wound of throat.....																									
Willful neglect.....																									
Total homicide.....																									
Order 4.—Suicide.																									
Drowning.....																									
Gunshot wound.....																									
Burns.....																									
Cyanide potassium.....																									
Hanging.....																									
Incised wound of throat.....																									
arm.....																									
Arsenic.....																									
Corrosive sublimate.....																									
Laudanum.....																									
Total suicides.....																									
Total violence.....																									

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.																				
RECAPITULATION.																				
Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.				Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality.
			Deaths per 1,000 inhabitants.		C.		W.		C.		W.		C.		W.		F.			
			W.	C.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
I. Zymotic diseases.....	907	21.929	4.452	5.938	292	248	181	186	540	367	473	434	173	140	136	589	14.241			
II. Constitutional diseases.....	1,080	26.112	4.477	8.689	274	269	225	312	543	537	499	581	35	72	74	207	5.005			
III. Local diseases.....	1,550	37.476	6.554	12.217	461	334	392	363	795	755	853	697	117	90	209	635	15.353			
IV. Developmental diseases.....	453	10.953	2.003	3.398	99	144	85	125	243	210	184	269	58	45	48	200	4.836			
V. Violence.....	146	3.530	.692	1.003	53	31	38	24	84	62	91	55	6	8	17	47	1.136			
Grand total.....	4,136	100.000	18.178	31.245	1,179	1,026	921	1,010	2,205	1,931	2,100	2,036	389	309	484	1,678	40.571			
I. { Miasmatic diseases.....	768	18.569	3.858	4.854	243	225	145	155	468	300	388	380	140	121	107	474	11.460			
{ Enteric diseases.....	19	.459	.091	.129	5	6	4	4	11	8	9	10	4	5	2	15	.363			
{ Diabetic diseases.....	114	2.756	.462	.938	40	16	31	27	56	58	71	43	25	13	27	94	2.273			
{ Parasitic diseases.....	6	.145	.041	.016	4	1	1	.....	5	1	5	1	4	1	.....	6	.145			
II. { Diathetic diseases.....	146	3.530	.816	.760	36	63	12	35	99	47	48	98	1	.....	1	4	.097			
{ Tubercular diseases.....	934	22.582	3.661	7.929	238	206	213	277	444	490	451	483	34	26	70	203	4.908			
{ Diseases of nervous system.....	534	12.911	2.374	3.980	181	107	132	114	288	246	313	221	47	33	83	238	5.754			
{ Circulatory diseases.....	169	4.086	.783	1.197	53	42	41	33	95	74	94	75	1	1	1	3	.072			
III. { Respiratory diseases.....	525	12.693	1.797	4.968	120	98	152	155	218	307	272	253	47	36	107	801	7.278			
{ Digestive diseases.....	211	5.101	1.063	1.327	69	60	44	38	129	82	113	98	19	17	24	80	1.934			
{ Diseases of the urinary system.....	81	1.958	.412	.502	33	17	18	13	50	31	51	30	.....	1	3	5	.121			
{ Generative organs.....	10	.242	.041	.081	.....	5	.....	5	5	5	.....	10	.....	.....	.....	.....	.....			
IV. { Locomotory and osseous diseases.....	8	.193	.016	.097	2	.....	1	5	2	6	3	5	1	.....	2	3	.072			
{ Integumentary diseases.....	12	.290	.066	.065	3	5	4	.....	8	4	7	5	2	2	1	5	.121			
{ Diseases of children.....	200	4.836	.849	1.570	58	45	49	48	103	97	107	93	58	45	48	200	4.836			
{ Women.....	45	1.088	.181	.372	.....	22	.....	23	22	23	.....	45	.....	.....	.....	.....	.....			
{ Old age.....	197	4.763	.899	1.424	37	72	36	52	109	88	73	124	.....	.....	.....	.....	.....			
{ Nutrition.....	11	.266	.074	.032	4	5	.....	2	9	2	4	7	.....	.....	.....	.....	.....			

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.		1880.												1881.																													
		Total second quarter.						January.						February.						March.						Total third quarter.						April.						May.					
		W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.			W.			C.		
		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.							
RECAPITULATION.		I. Zymotic diseases.....	81	87	43	37	14	22	5	7	19	11	12	15	13	5	7	5	7	6	46	38	24	28	16	13	7	7	17	10	10	8											
		II. Constitutional diseases.....	71	61	48	79	33	28	16	19	22	23	22	32	23	30	23	34	81	61	85	78	81	61	85	24	22	27	44	26	20	20	23										
		III. Local diseases.....	102	67	75	89	46	33	27	34	47	33	38	32	41	40	58	36	134	106	102	106	123	102	51	38	46	40	56	27	30	17											
		IV. Developmental diseases.....	34	38	18	27	9	15	12	12	12	8	7	5	22	5	21	5	11	22	43	22	45	8	15	8	10	7	2	7	4												
		V. Violence.....	14	6	18	5	.....	.....	2	2	4	1	5	2	6	5	4	3	2	6	11	7	12	2	2	2	2	2	5	5	1	1											
		Grand total.....	302	259	202	237	102	100	62	76	97	79	79	107	87	100	96	89	286	279	237	272	101	90	90	104	111	64	68	53													
I. { Miasmatic diseases..... Enthetic diseases..... Dietic diseases..... Parasitic diseases..... Diathetic diseases..... Tubercular diseases..... Diseases of nervous system..... Circulatory diseases..... Respiratory diseases..... Digestive diseases..... Diseases of the urinary system..... generative organs..... Locomotor and osseous diseases..... Integumentary diseases..... Diseases of children..... women..... Old age..... Nutrition.....		69	84	34	31	12	20	3	6	16	9	9	12	8	4	4	4	36	33	16	22	12	10	5	6	15	10	6	6														
		2	2	1	8	.....	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	2	2	1	.....	1	1	1	1	.....	.....	.....	.....													
		9	1	8	6	1	.....	.....	1	1	1	2	3	3	5	1	3	2	7	3	7	6	2	2	2	1	2	.....	4	.....	.....												
		1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....												
		8	13	2	9	6	4	.....	5	4	4	4	1	2	4	8	2	4	14	16	3	11	6	9	2	4	1	5	1	2	.....												
		63	48	46	70	27	24	16	14	18	19	21	30	9	13	10	11	6	44	65	58	74	18	13	25	40	25	15	19	21	.....												
		37	22	31	33	17	8	7	9	14	7	8	4	2	6	9	8	4	14	25	26	24	21	13	12	15	8	3	2	1	4	.....											
		11	6	10	8	5	2	3	2	3	6	4	2	2	16	15	15	34	14	17	15	8	4	3	4	5	11	3	2	1	8	.....											
		28	20	30	35	13	15	14	18	17	15	20	6	1	1	5	5	3	5	17	12	68	53	16	10	21	18	9	9	11	8	.....											
		14	13	3	10	6	5	2	2	6	7	3	.....	1	1	.....	.....	1	2	12	5	1	3	7	8	7	1	4	4	.....	3	.....											
		9	4	1	2	5	2	.....	1	7	3	.....	.....	1	1	.....	1	.....	1	.....	1	3	3	3	3	2	.....	4	1	2	1	.....											
			1		1				2	2				1	1								3																				
		2							1							1		1		1		2																					
		1	1						1							1		1		1		2							2														
		21	11	13	10	3	4	4	4	5	6	2	2	1	7	2	9	3	5	11	15	8	17	4	2	7	2	4	1	2	1												
.....	6	.....	6	.....	.....	.....	.....	4	.....	.....	.....	.....	3	.....	1	.....	.....	4	.....	.....	7	.....	3	.....	.....	.....	.....	.....	.....	.....	.....												
11	19	5	11	5	9	8	8	3	2	2	4	4	12	2	11	2	6	9	24	14	21	4	4	9	1	.....	3	1	5	3	.....												
2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....											

TABLE L.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	AGE OF DECEDENT.												SOCIAL RELATIONS.					
	70 to 80 years.						80 to 90 years.						90 to 100 years.					
	W.			C.			W.			C.			W.			C.		
	M.		F.	M.		F.	M.		F.	M.		F.	M.		F.	M.		F.
	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.	W.	M.	F.
RECAPITULATION.																		
I. Zymotic diseases	5	6	3	1	2	3	1	1	1	1	1	1	3	41	35	9	15	9
II. Constitutional diseases	10	8	9	3	1	3	1	2	3	1	1	1	106	101	114	66	92	8
III. Local diseases	49	45	22	9	10	9	2	9	3	2	2	3	61	200	96	101	79	48
IV. Developmental diseases	17	30	14	15	11	23	3	8	11	5	5	6	18	13	30	21	9	27
V. Violence.....	2	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	5	23	10	6	12	6
Grand total.....	83	91	51	40	24	37	3	10	15	5	5	6	205	378	285	203	224	96
I. Miasmatic diseases	5	6	2	1	2	1	.....	.....	.....	.....	.....	.....	15	33	33	8	26	8
Enthetic diseases.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1
Dietic diseases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	1	1	.....	.....
Parasitic diseases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
II. Diathetic diseases	5	5	4	2	1	1	.....	.....	1	.....	.....	.....	20	19	30	8	7	3
Tubercular diseases	5	3	5	1	1	2	.....	.....	.....	.....	.....	.....	86	82	84	58	85	48
Diseases of nervous system	17	12	11	5	5	3	1	.....	3	.....	.....	.....	10	68	27	29	38	53
Circulatory diseases	7	10	3	6	3	1	.....	.....	.....	.....	.....	.....	18	28	14	26	11	.....
Respiratory diseases.....	8	9	2	1	2	5	.....	.....	.....	.....	.....	.....	20	46	24	24	16	6
Digestive diseases.....	13	10	1	3	1	1	.....	.....	.....	.....	.....	.....	7	35	21	11	6	8
Diseases of the urinary system	4	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	23	5	9	6	3
generative organs .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3	.....	.....	2
Locomotory and osseous diseases .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....
Integumentary diseases .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diseases of children.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
women.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IV. Old age.....	17	30	14	15	11	23	3	8	11	5	5	6	15	.....	20	.....	.....	5
Nutrition.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	13	9	21	7	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2	1

TABLE I.—DEATHS.—SHOWING TOTAL, NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

Cause of death.	SOCIAL RELATIONS.										NATIVITY.																			
	Widow or widower.					Unknown.					District of Columbia.					Other parts of United States.					Foreign.					Unknown.				
	W.		C.			W.		C.			W.		C.			W.		C.			W.		C.			W.		C.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
	RECAPITULATION.																													
I. Zymotic diseases.....	10	14	3	8		1		1			197	183	152	150		55	49	29	36		40	16								
II. Constitutional diseases.....	24	56	6	33		5	1	1	1		96	102	103	132		110	109	121	180		68	58		1						
III. Local diseases.....	45	90	26	54		6		4	1		168	138	243	235		165	132	147	128		127	64						2		
IV. Developmental diseases.....	18	56	15	50		1					59	61	40	57		17	53	35	68		23	30		1						
V. Violence.....	2	6	1	1		2					19	13	24	20		16	11	14	4		17	7								
Grand total.....	99	222	51	146		15	1	6	2		539	497	571	594		363	354	346	416		275	175		2			2			
I. { Miasmatic diseases.....	9	13	3	7				1			160	165	120	121		49	46	25	34		34	14								
{ Euthetic diseases.....				1							4	5	3	2		1		1	2			1								
{ Dietic diseases.....	1	1				1					29	12	28	27		5	3	3			6	1								
{ Parasitic diseases.....											4	1	1																	
{ Diathetic diseases.....	6	22	1	7					1		8	18	1	8		16	30	11	27		12	15								
II. { Tubercular diseases.....	18	34	5	26		5	1	1			88	84	102	124		94	79	110	153		56	43		1						
{ Diseases of nervous system.....	19	31	9	26		4		2			59	47	93	79		72	41	88	35		49	19			1					
{ Circulatory diseases.....	11	15	4	9		1		1			12	13	13	6		22	22	27	27		19	7								
{ Respiratory diseases.....	4	19	8	10		1					62	45	107	114		32	37	45	41		26	16								
{ Digestive diseases.....	8	17	3	5					1		25	21	25	27		23	19	19	11		21	20								
III. { Diseases of the urinary system.....	3	6	2	3							7	9	4	4		16	7	14	9		10	1								
{ Diseases of the generative organs.....		1		1										1			4		4			1								
{ Locomotory and osseous diseases.....											1							1			1									
{ Integumentary diseases.....		1									2	3	1				2	3			1									
IV. { Diseases of children.....											57	45	49	48		1														
{ women.....				1								9		4			10													
{ Old age.....	17	55	15	48							2	7		5		15	40	35	47		20	25		1						
{ Nutrition.....	1	1		1		1										1	3		2		3	2								

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.																						
RECAPITULATION.																						
Cause of death.	Total deaths from each cause.	Per cent. of each mortality.	DEATH-RATE.				Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality.		
			Deaths per 1,000 inhabitants.		C.				W.				W.		C.		W.				C.	
			W.	C.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
			W.	C.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
V. { Accidents and negligence.....	116	2.805	0.536	0.825	42	23	31	20	65	51	73	43	6	12	14	38	.919					
{ Homicide.....	17	0.411	0.066	0.146	4	4	5	4	8	9	9	8	.....	2	4	3	.218					
{ Suicide.....	11	0.266	0.091	.....	7	4	.....	.....	11	.....	7	4	.....	.....	.....	.....	.....					
{ Judicial hanging.....	2	0.048	.....	0.032	.....	.....	2	.....	.....	2	2	.....	.....	.....	.....	.....	.....					
Grand total from all causes by sex.....	4,136	100.000	18.178	31.245	1,179	1,026	921	1,010	2,205	1,931	2,100	2,036	389	496	484	1,678	40.571					
Grand total from all causes by color.....	.....	.....	.....	.....	2,205	1,931	.....	.....	.....	.....	.....	.....	698	980	.....	.....	.....					
Percentage from all causes by color in each period of life to total mortality.....	.....	.....	.....	.....	53.312	.....	46.688	.....	.....	.....	.....	.....	10.88	23.69	.....	.....	.....					
Rate of death per 1,000 inhabitants (white and colored).....	.....	.....	.....	.....	18.178	.....	31.245	.....	.....	.....	.....	.....	5.75	15.86	.....	.....	.....					
Death-rate per 1,000 inhabitants (total).....	22.589	.....	.....	.....	12.042	.....	10.546	.....	.....	.....	.....	.....	3.81	5.35	.....	9.16	.....					

TABLE L.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1881.

1880.																												
Cause of death.		July.			August.			September.			Total first quarter.			October.			November.			December.								
		W.		C.	W.		C.	W.		C.	W.		C.	W.		C.	W.		C.	W.		C.						
		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.		M.	F.							
		6	1	1	1	8	1	2	1	7	3	1	5	4	2	4	6	2	2	2	5	2	7	1	4			
		1							1			1		1					1				1					
		2										2				2												
		100	92	81	98	77	77	77	94	105	92	87	81	282	261	245	273	103	85	92	90	72	59	75	109	102	59	70
		192		170		154		171		197		168		543		518		188		176	162		211		129			
		4.64		4.33		3.72		4.13		4.76		4.06		13.12		12.52		4.55		4.25	3.92		5.10		3.12			
		1.58		2.90		1.27		2.77		1.62		2.72		4.47		8.39		1.55		2.85	1.33		1.74		2.09			
		1.05		0.98		0.84		0.93		1.08		0.92		2.97		2.83		1.03		0.96	0.88		1.15		0.70			
RECAPITULATION.																												
V. { Accidents and negligence																												
{ Homicide																												
{ Suicide																												
{ Judicial hanging																												
Grand total from all causes by sex																												
Grand total from all causes by color																												
Percentage from all causes by color in each } period of life to total mortality																												
Rate of death per 1,000 inhabitants (white and } and colored)																												
Death-rate per 1,000 inhabitants (total)																												

TABLE II.—DEATHS.—Location of deaths and births, year ending June 30, 1881.

Diseases.	Georgetown.		Washington.								County.		Hospitals and other public institutions.		Totals.		Grand total.							
	1st di- vision.	2d di- vision.	3d di- vision.	4th di- vision.	5th division.		6th division.	7th division.		8th di- vision.	9th di- vision.		10th di- vision.	County.		W.		C.						
					West of High street.	East of High street.		South of K, west of 15th avenue northwest.	North of K, west of Vermont avenue northwest.		North of Massachusetts av- enue, east of Vermont av- enue, west of 1st west, northwest.	South of B south, west of 1st west and Delaware avenue southwest.		East of Delaware avenue, south of E southeast.	North of E southeast, east of 1st west, south of Mary- land avenue northeast.				East of 1st west, north of Maryland avenue north- east.	West of Eastern Branch.	East of Eastern Branch.			
Phthisis pulmonalis ...	8	12	19	23	53	52	37	39	48	26	17	22	32	45	18	12	13	6	17	51	70	368	392	760
Pneumonia.	2	4	5	6	21	27	13	15	34	12	8	14	14	17	9	6	12	2	13	15	10	134	194	328
Cholera infantum ...	...	3	1	4	12	6	3	7	12	7	4	8	2	6	2	1	4	1	1	3	2	60	54	114
Scarlet fever	...	...	4	...	4	...	...	1	1	1	...	6	...	5	...	...	...	...	...	...	...	25	1	26
Diphtheria	6	7	4	9	23	4	...	15	2	5	5	2	1	10	...	3	2	...	...	2	...	106	18	124
Typhoid fever.....	1	1	2	5	3	7	1	4	2	1	...	5	2	3	2	3	4	1	...	6	1	44	23	67
Malarial fevers.....	2	1	13	2	2	3	4	7	10	4	...	6	11	8	2	4	3	2	3	6	2	58	72	130
Diarrhoeal diseases...	...	2	3	4	6	8	9	8	7	3	2	5	9	8	3	...	9	1	7	22	8	68	85	153
All other diseases....	46	20	47	110	156	163	64	131	138	74	55	96	87	111	47	65	57	15	42	225	165	1,342	1,092	2,434
Totals.....	65	37	72	167	280	270	131	227	254	113	108	164	158	213	83	94	104	28	84	330	259	2,205	1,931	4,136
Percentage to total deaths, by color....	2.95	1.92	3.26	3.62	5.17	5.80	7.57	13.52	12.70	9.66	4.30	4.26	5.38	1.27	4.35	14.96	13.41	.....	.....	.....	.....	.....	.....	.....
Births.....	46	23	46	60	349	254	106	275	233	176	88	158	93	238	75	85	82	34	53	74	130	2,014	1,581	3,595
Percentage to total births, by color....	2.28	1.45	2.28	3.79	4.52	5.63	9.14	18.66	17.33	16.07	12.81	6.70	13.65	14.74	4.74	4.22	5.19	1.69	3.35	3.67	8.22	.....	.....	.....

TABLE III.—DEATHS.—Deaths under one year of age, arranged monthly, year ending June 30, 1881.

	1 day and under.	1 day to 1 week.	1 week to 1 month.	1 to 2 months.	2 to 3 months.	3 to 4 months.	4 to 5 months.	5 to 6 months.	6 to 7 months.	7 to 8 months.	8 to 9 months.	9 to 10 months.	10 to 11 months.	11 to 12 months.	Total.	Total by color.	Percentage to total 1 year of age by color.
July, 1880:																	
White males	4	2	2	2	6	4	4	2	2	2	4	1	1	3	38	74	18.18
females	1	1	7	2	3	1	2	2	6	2	5	4	4	1	36	36	18.18
Colored males	1	3	6	1	3	3	2	4	3	1	4	2	2	3	36	83	13.09
females	3	5	7	1	3	3	6	5	2	2	3	2	5	1	47	47	13.09
Total	9	10	22	5	12	11	14	13	13	7	16	6	12	7	157	157	15.08
August, 1880:																	
White males	2	3	3	3	3	1	2	1	1	1	1	1	2	1	22	38	9.34
females	1	6	4	2	2	2	1	1	4	1	3	2	1	1	16	27	9.34
Colored males	1	5	9	1	2	2	2	2	2	2	2	4	1	2	36	63	9.94
females	4	1	9	1	2	2	2	2	2	2	2	4	1	2	36	63	9.94
Total	8	15	16	9	7	5	5	4	7	4	7	6	4	4	101	101	9.70
September, 1880:																	
White males	1	1	1	4	2	2	1	1	1	1	1	1	1	1	12	27	6.63
females	1	4	3	1	2	2	3	2	2	1	2	2	2	2	15	38	6.63
Colored males	2	4	7	3	5	2	3	2	2	1	2	3	1	1	29	67	10.57
females	3	4	5	4	2	2	2	2	3	1	1	3	1	1	29	67	10.57
Total	7	9	16	12	11	6	7	3	5	1	2	6	6	3	94	94	9.03
October, 1880:																	
White males	3	2	4	1	3	1	1	1	1	1	1	1	1	2	20	28	6.88
females	1	1	1	1	1	1	1	1	1	2	2	1	1	1	8	28	6.88
Colored males	5	2	4	4	5	1	1	1	1	1	2	1	1	1	24	52	8.20
females	1	2	6	3	4	2	2	2	2	2	1	3	1	1	24	52	8.20
Total	10	7	15	8	13	3	4	2	1	6	3	4	1	3	80	80	7.68
November, 1880:																	
White males	4	1	2	1	1	2	2	1	1	1	1	1	1	1	15	20	4.91
females	1	1	2	1	1	1	1	1	1	1	1	1	1	1	5	20	4.91

TABLE III.—DEATHS.—Deaths under one year of age, arranged monthly, year ending June 30, 1881—Continued.

	1 day and under.	1 day to 1 week.	1 week to 1 month.	1 to 2 months.	2 to 3 months.	3 to 4 months.	4 to 5 months.	5 to 6 months.	6 to 7 months.	7 to 8 months.	8 to 9 months.	9 to 10 months.	10 to 11 months.	11 to 12 months.	Total.	Total by color.	Percentage to total mortality under 1 year of age by color.
November, 1880—Continued.																	
Colored males	2	1	4	2	1		2	2		1	1	1		2	19	42	6.62
females	2	4	6	2			2	1	1		2		1		23		
Total	9	7	14	4	2	2	6	4	2	3	3	3	1	2	62		5.96
December, 1880:																	
White males	2	2		3	1	1	2		3	2					16	25	6.43
females	2	1	1	3					1					1	9		
Colored males	2	3	5	1			3			3				3	20	47	7.41
females	2	1	7	1	4	2	2	1	1		2	1	1	2	27		
Total	8	7	13	8	5	3	7	1	5	5	2	1	1	6	72		6.92
January, 1881:																	
White males	1	2	3	3	2										11	29	7.13
females	5	1	1	5		1		1	1	2				1	18		
Colored males	3	3	2	1		1				2	1			2	15	35	5.52
females	2	3	4	1		1	2	1	2	1		2			20		
Total	11	9	10	10	2	3	2	2	3	5	2	2		3	64		6.15
February, 1881:																	
White males	1	6	1	2		1	1	1		1	1	5			20	32	7.86
females	1	1		1	1		1	3	1			1		2	12		
Colored males	3		2	2		3	1	2	1	3		1	1		19	53	8.36
females	5	5	5	3	1	4	1	5	2		1		2		34		
Total	10	12	8	8	2	8	4	11	4	4	2	7	3	2	85		8.17
March, 1881:																	
White males	1		1	1	2	1	2	2	1			2	1		14	29	7.13
females	5	4	3	1		1					1				15		
Colored males	3	4	4			1	1		3	2	3	2	1	1	25	51	8.04
females	2	2	1	5	1	1	1		3	4	3	1	2		26		
Total	11	10	9	7	3	4	4	2	7	6	7	5	4	1	80		7.68

TABLE IV.—DEATHS.—Number of deaths of children under five years of age from the principal diseases of children, year ending June 30, 1881.

Diseases.	White.		Colored.	
	Deaths.	Percentage to total mortality of whites under 5 years of age.	Deaths.	Percentage to total mortality of colored under 5 years of age.
Measles.....	6	.85	2	.02
Croup.....	52	7.44	23	2.35
Diphtheria.....	65	9.31	10	1.02
Scarlet fever.....	17	2.43		
Typhoid and malarial fevers.....	15	2.15	39	3.98
Diarrhoeal diseases, except cholera infantum.....	27	3.85	71	7.25
Whooping-cough.....	9	1.28	9	.92
Inanition.....	37	5.30	55	5.61
Scrofula, tuberculosis, marasmus, and tabes.....	48	6.87	73	7.45
Hydrocephalus and tubercular meningitis.....				
Phthisis pulmonalis.....	12	1.73	70	7.14
Acute diseases of brain.....	44	6.30	36	3.67
Convulsions.....	25	3.58	108	11.02
Trismus.....	9	1.28	22	2.24
Bronchitis and congestion of lungs.....	32	4.50	80	8.27
Pneumonia.....	49	7.16	137	13.98
Diseases of digestive organs.....	36	5.19	44	4.49
Developmental diseases of children.....	103	14.75	97	9.91
Accidents and negligence.....	12	1.73	26	2.65
All others.....	100	14.30	78	7.97
Total.....	698	100.	980	100.
Percentage to total mortality by color.....		31.65		50.75
Annual death-rate by color.....		5.72		15.85

TABLE V.—DEATHS.—Number dying, seventy years of age and over, year ending June 30, 1881.

	White.		Colored.		Total.
	Male.	Female.	Male.	Female.	
70 years.....	16	11	7	16	50
71 years.....	5	10	3	3	21
72 years.....	12	6	3	4	25
73 years.....	9	9	3	4	25
74 years.....	6	18	2	3	29
75 years.....	12	6	6	10	34
76 years.....	8	8	2	5	23
77 years.....	10	5	3	1	19
78 years.....	4	7	6	3	20
79 years.....	2	11	4	1	18
80 years.....	6	4	15	15	40
81 years.....	3	2	1	2	8
82 years.....	2	5	1		8
83 years.....	2	5	1	2	10
84 years.....	2	5	1	2	10
85 years.....	3	6	4	7	20
86 years.....	2	6		1	9
87 years.....	2	1			3
88 years.....	1	1	3	4	9
89 years.....	2	2	1		5
90 years.....	3	5	2	0	16
91 years.....		1			1
92 years.....		2		2	4
93 years.....		1	1	2	4
94 years.....				1	1
95 years.....		1	1	2	4
96 years.....				1	1
97 years.....		1			1
98 years.....				1	1
99 years.....			1		1
100 years and over.....				6	6
Total.....	112	139	71	104	426

TABLE VI.—DEATHS.—Average ages in years of decedents dying from eighteen different diseases, and from suicide, during the year ending June 30, 1881.

	White.		Colored.	
	Males.	Females.	Males.	Females.
Phthisis pulmonalis	38	36	27	21
Typhoid fever	32	25	17	19½
Apoplexy	58	58	59	61
Insanity	48	51	53	29
Softening of the brain	62	38	52	67
Paralysis	56	69	61	68
Cancer	61	54	85	53
Epilepsy	49	29½	34	12
Disease of heart	56	52	44	49
Bright's disease	49	48	36	47
Rheumatism	48	41	32	37
Aneurisms	37	35	39½	.....
Angina pectoris	53	67	.....	.....
Gastritis	51	53	60½	26½
Cirrhosis of liver	61	71	39½	.....
Dropsies	38	52	35	43½
Diabetes	56	62	.....	.....
Hernia	59½	52	.....	.....
Suicides	48	42	.....	.....

TABLE VII.—DEATHS.—Number of deaths occurring in the hospitals and similar institutions during the year ending June 30, 1881.

Hospitals.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Freedmen's Hospital	17	3	87	50	157
Providence Hospital	52	19	4	6	81
Government Insane Asylum	60	12	7	4	83
Washington Asylum Hospital	13	14	33	30	90
St. Ann's Infant Asylum	36	19	7	14	76
Children's Hospital	3	6	7	4	20
Home for the Aged	5	8	.....	.....	13
Small-pox Hospital	1	.....	.....	.....	1
Naval Hospital	4	.....	.....	.....	4
United States Jail .....	.....	.....	2	.....	2
Columbia Hospital	3	2	.....	3	8
Protestant Orphan Asylum	1	.....	.....	.....	1
United States Arsenal	5	1	.....	.....	6
Notre Dame .....	.....	1	.....	.....	1
Convent of the Visitation .....	.....	1	.....	.....	1
Women's Christian Association .....	.....	2	.....	1	3
Barnes Hospital (Soldiers' Home)	37	.....	.....	.....	37
Deaf and Dumb Asylum .....	.....	1	.....	.....	1
Reform School .....	.....	2	.....	.....	2
St. Vincent's .....	.....	1	.....	.....	1
Orphans' Home .....	.....	.....	.....	1	1
Total	237	92	147	113	589

TABLE VIII.—DEATHS.—Deaths and average ages, year ending June 30, 1881.

WHITE MALES.

	All ages.			5 years of age and over.			20 years of age and over.			40 years of age and over.						
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1880.																
July	100	26	1	27	56	46	2	3	49	51	8	6	39	56	7	4
August	77	24	9	20	42	44	7	20	39	47	2	28	27	54	9	29
September	105	33	2	29	75	45	10	12	65	50	11	10	45	60	4	13
October	103	29	6	17	61	49	1	1	58	51	0	17	43	58	9	14
November	90	31	1	5	60	45	11	3	55	49	2	25	36	57	9	3
December	109	34	4	21	79	46	11	29	58	61	8	20	55	58	5	7
1881.																
January	102	38	5	28	82	47	7	10	77	50	1	26	47	62	5	12
February	97	31	9	2	65	46	9	14	59	50	5	14	44	57	3	25
March	87	34	2	7	62	47	6	25	58	50	1	16	45	55	11	19
April	101	34	9	14	74	47	1	3	66	51	2	9	45	60	11	.....
May	111	34	5	6	83	45	7	7	78	47	7	27	48	58	11	29
June	97	25	5	2	52	46	10	18	47	50	8	24	35	58	1	27
Total	1,179	31	8	17	791	46	8	26	709	51	.....	1	509	58	6	24

WHITE FEMALES.

1880.																
July	92	23	11	20	50	43	6	29	41	50	7	5	27	61	11	2
August	77	24	1	24	43	42	3	13	40	44	3	1	19	61	1	3
September	92	33	5	17	66	46	2	4	52	56	2	18	39	65	1	13
October	85	29	.....	5	58	41	9	21	44	51	5	21	27	64	4	23
November	72	27	7	7	50	38	9	25	41	44	2	25	22	58	11	17
December	102	38	6	6	79	49	2	18	70	54	.....	28	52	61	9	2
1881.																
January	100	32	9	2	73	44	6	18	61	51	2	4	39	61	7	27
February	79	34	10	18	62	44	2	21	51	51	.....	19	32	61	9	29
March	100	36	6	27	74	49	1	22	65	55	5	18	46	63	10	.....
April	90	37	2	4	67	49	5	19	61	53	4	6	41	64	7	24
May	64	37	2	15	47	49	11	29	43	53	7	4	52	61	7	4
June	73	30	.....	18	47	46	2	.....	42	50	9	7	28	61	4	27
Total	1,026	32	3	16	716	45	9	3	611	51	5	29	404	62	6	27

TABLE VIII.—DEATHS.—Deaths and average ages, &c.—Continued.

COLORED MALES.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1880.																
July	81	18	7	15	30	49	...	10	26	54	9	5	20	61	11	21
August	77	18	4	18	33	41	8	15	25	51	9	18	17	61	3	16
September	87	15	2	16	33	38	8	3	26	45	3	13	16	55	9	22
October	84	20	7	6	39	43	3	25	32	50	8	10	21	60	10	27
November	59	21	3	29	30	41	...	20	21	51	9	4	12	70	5	...
December	59	17	5	...	27	33	2	5	19	48	6	28	13	55	7	12
1881.																
January	62	27	7	15	34	49	4	2	31	41	4	22	20	67	1	3
February	79	22	...	12	43	39	6	1	32	47	10	25	19	62	5	...
March	96	18	9	29	40	43	9	27	39	44	4	9	23	53	1	19
April	90	18	5	26	43	37	4	8	37	42	...	4	17	57	3	19
May	68	25	5	11	38	45	1	13	32	51	7	15	20	65	3	24
June	79	15	11	20	34	36	1	15	27	41	7	24	12	61	5	...
Total	921	19	8	27	424	41	9	23	347	48	5	3	210	61	2	12

COLORED FEMALES.

1880.																
July	98	11	5	21	29	36	11	18	24	41	4	29	11	61	...	...
August	94	17	6	25	43	37	5	21	33	44	9	7	15	65	7	7
September	81	20	7	6	40	40	11	17	36	44	2	5	14	66	8	17
October	92	26	7	25	58	41	10	7	52	45	2	29	27	61	...	26
November	75	21	9	10	39	41	2	...	32	47	6	1	18	62	8	27
December	70	25	2	27	34	51	2	3	33	52	5	15	22	65	...	15
1881.																
January	76	25	11	1	45	43	1	10	38	48	11	18	20	69	4	18
February	107	23	7	10	56	44	3	26	47	50	10	21	26	69	...	25
March	89	23	5	1	47	43	3	29	42	47	5	1	21	66	2	26
April	104	24	3	22	64	38	8	23	54	43	8	14	26	61	...	10
May	53	27	9	23	31	46	8	23	27	51	8	26	16	66	8	3
June	71	20	7	24	39	37	...	2	30	45	1	3	15	63	1	20
Total	1,010	22	1	15	525	41	9	4	448	46	11	18	231	64	11	27

TABLE IX.—Cemeteries, and number of decedents buried in each, year ending June 30, 1881.

Cemeteries.	White.	Colored.	Total.	Still-births.		
				White.	Colored.	Total.
Oak Hill	190	.....	190	9	.....	9
Congressional	303	2	305	23	.....	23
Mount Olivet	515	170	685	26	3	29
Glenwood	251	.....	251	17	.....	17
Prospect Hill	116	.....	116	6	.....	6
Holyrood	85	20	105	8	3	11
Rock Creek	72	2	74	6	.....	6
Saint Mary's	40	.....	40	1	.....	1
Graceland	49	104	153	8	5	13
Methodist	18	.....	18	4	.....	4
Presbyterian	46	.....	46	1	.....	1
Mount Pleasant, or Young Men's	2	350	352	1	28	29
Beckett's	1	283	284	1	36	37
Harmony	3	276	279	1	7	8
Baptist .....	.....	16	16	.....	.....	.....
Mount Zion .....	.....	109	109	.....	8	8
Washington Hebrew	16	.....	16	.....	.....	.....
Jones's Chapel .....	.....	7	7	.....	.....	.....
Good Hope Hill .....	.....	4	4	.....	.....	.....
Macedonian .....	.....	4	4	.....	.....	.....
Payne's	1	112	113	.....	11	11
Brightwood .....	.....	7	7	.....	.....	.....
Moore's .....	.....	28	28	.....	4	4
Hillsdale .....	.....	15	15	.....	2	2
Skaggs's	1	5	6	.....	.....	.....
Tennallytown	8	3	11	1	.....	1
Soldier's Home grounds	38	.....	38	.....	.....	.....
Insane Hospital grounds	45	10	55	.....	.....	.....
Private grounds	3	21	24	4	1	5
Georgetown Convent grounds	1	.....	1	.....	.....	.....
Georgetown College	2	.....	2	.....	.....	.....
Queen Chapel	1	.....	1	.....	.....	.....
Industrial Home	1	.....	1	.....	.....	.....
Potter's Field	58	347	405	18	115	133
Outside the District	249	36	285	7	2	9
Color unknown, Potter's Field .....	.....	.....	.....	.....	.....	367
Total	2,205	1,931	4,136	142	225	370

TABLE X.—Occupations of fathers of children born of grooms, and of decedents, year ending June 30, 1881.

Occupations.	Fathers.		Grooms.		Decedents.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Auctioneers	2							
Actuaries					2			
Artists	6		3					
Attorneys and agents	48		13		21			
Architects	5		1		2			
Anatomists					1			
Astronomers	2							
Attachés of foreign embassies	1							
Brakemen			2		1			
Booksellers	2				1			
Bankers	4				3			
Builders	3				3			
Barbers and hair dressers	8		23		1		5	1
Blacksmiths	13		4	1	10		2	
Bookbinders	13				1			
Bookkeepers	4				4			
Butchers	33	1	6	2	11			
Boatmen	11		3					
Bakers	17		5		5		1	
Bar-tenders	6		1		2		2	
Bell-hangers			1					
Brewers	1		1		5			
Broom-makers	1							
Brick-makers	5		2				1	
Baggage-masters	1							
Brush-makers	1							
Brass-founders	1							
Boiler-makers	4		1					
Boat-builders					1			
Boatmen					1			
Bricklayers					6			
Carpenters	73	7	9	1	20			
Carriage-makers	9		2					
Cabinet-makers	11				5			
Clerks	313	6			67	12		
Contractors	8	1			8			
Captains of steamers	1				1			
Collectors	6				1			
Cigar-makers	12				2			
Cooks	5	9			4	3	3	30
Clergymen	7	7	3		8		2	
Coachmen		37	4	3				
Conductors	8		1					
Coffee-roasters	1							
Coppersmiths	4				1			
Civil engineers	2		4					
Confectioners	8	1			1			
Coopers	2							
Cattle drivers					1			
Canvassers	1	1			2			
Dressmakers						4		4
Drivers	35	13		4	10		5	
Druggists	11		2		3			
Draughtsmen	2		1		6			
Dealers in ice	3		1		1			
Dyers	2		1					
Dairymen	5		2		2			
Dentists			3			1		
Distillers				1				
Doorkeepers					1			
Engravers	11	1	1		1			
Examiners of patents	3							
Engineers	13		6		6			
Editors and publishers					6			
Expressmen					1			
Feed dealers	1							
Felters		1						
Florists	4				1			
Fruit dealers	4							
Finishers	3				1			
Farmers	22	9	46	6	22			

TABLE X.—Occupations of fathers of children born, &c.—Continued.

Occupations.	Fathers.		Grandfathers.		Descendants.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Firemen	12	2		1	3			
Fishermen	2		4	1	2			
Flour inspectors					1			
Gardeners	12	4	6		12			
Grangers	41		1		3		1	
Grasscutters	1							
Grasscutters	1		1					
Grasscutters					2			
Grasscutters					1			
Hatters	6	5	5		3		1	
Health inspectors	2							
Hammock-makers	4				1			
Hotel keepers	2		1					
Hostlers		10	2	1				
Horse-dealers	3							
Hatters	1		1		1			
Hospital stewards					4			
Hackmen					1			
House-renters					1			
Instrument-makers					1			
Inventors	1							
Journalists	2		4	1	1			
Jewelers	9				3			
Junk dealers	1							
Jail guards	1							
Lumber dealers	2							
Laborers	152	534			71		211	
Livery-stable keepers	4		1					
Lamplighters	1							
Locksmiths	1							
Letter-carriers	5		1					
Leather dealers	1							
Lithographers	1		1					
Laundresses						1		19
Market-masters					1			
Merchants	114		12			25		
Mechanics	15		1		2			
Messengers	15	31	1	2	6			
Machinists	15		5		5			
Molders	3		1		1			
Musicians	14	2	2		7	1	1	
Masons	1		1					
Marble-workers	1							
Mail agents	1							
Mattress-makers	2							
Members of Congress	1							
Millers	2		4	1	1			
Miners			1		1			
Midwives						2		
Matrons						1		
Manufacturers					1			
Nurses	1	2			2			2
Notaries public					1			
Opticians	1							
Officers, United States Navy	11				3			
Officers, United States Army	2		1		4			
Oyster dealers	3		1		1			
Organ-makers					1			
Plumbers	29				1			
Peddlers	1							
Painters	47	4	11	2	22			
Printers	87	16			15			
Produce dealers	14							
Plasterers	25	2	1		6			
Physicians	7		6		15			
Policemen	20	1	1		2			
Pavers	3		2					
Porters		23		6			2	
Phonographers	1							
Pilots	1		1					
Photographers	3		1		2			
Paper-hangers	5		1					

TABLE X.—Occupations of fathers of children born, &c.—Continued.

Occupations.	Fathers.		Grooms.		Decedents.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Pressmen	1							
Paper-makers	1		1					
President Navigation Company	1				1			
Pattern-makers	2		1		1			
Piano-makers					2			
Restaurant keepers	13		2		9		1	
Religieuse						2		
Rag-dealers		7		1				
Riggers	1				1			
Registers, Land Office			1					
Reporters					1			
Soap-makers		2	1	1				
Soldiers	13		2		87			
Shoemakers	16	15	5	1	5		3	
Servants	4	50	50	34	12	16	15	133
Sawyers				1				
Students					2			
Stone-cutters	11			1	9		1	
Signal Service	3				1			
Stevedores	1	1		2				
Sailors	10	7		1	9		3	
Slaters	1							
Saddlers	2							
Superintendents, railroad	2							
Salesmen	2							
Stenographers	5			1				
Sextons	1	3			1			
Surgeons, United States Army					2			
Seamstresses						9		6
Superintendents gas works					1			
Tailors	19	1		4	7			
Tinners	17		2		3			
Teachers	4	1	2	1	1	1	2	1
Telegraphers	8		2					
Tobacconists	4							
Topographers			1					
Turners					1			
Undertakers	5	2	1				1	
Umbrella-makers					1			
Upholsterers	2	1			1			
Veterinary surgeons	1							
Watchmen	14	2		1	9			
Wood and coal dealers	7							
White-washers		1						
Wheelwrights	1		1	1	3			
Washers and ironers								6
Wood turners					1			
Wood sawyers							1	

TABLR XI.—Showing daily mortality, divided under 19 heads, classified by color, different All deaths by violence
JULY, 1880.

Day of month.	Mortality.																			Meteorological conditions.						
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrheal diseases, 5 years of age and over.	Diarrheal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.						
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.	
1.....	5	9	14	1	4	1	1				1	2	2		3	8	1	30.03	+	.01	.....	.15	.16	—	.14	
2.....	3	6	9	1	1					1	1	1	2		1	6	1	29.82	—	.10	.03	.09	.22	—	.16	
3.....	12	4	16	1	6	1					3	1			1	2	9	29.94	+	.08	.10	.....	.18	+	.18	
4.....	9	4	13		4	1					1	2	2		1	2	7	30.07	+	.10	.....	.03	.13	+	.07	
5.....	4	3	7		2					1						3	3	29.91	—	.05	.....	.15	.20	—	.20	
6.....	8	5	13	2	2	1			1		3					3	4	29.95	+	.06	.06	.....	.12	+	.12	
7.....	8	4	12			1				1	1		2	1			7	30.08	+	.08	.05	.....	.13	+	.13	
8.....	6	11	17		6	1					4	2	3				12	30.11	+	.06	.01	.07	.14		.0	
9.....	9	8	17	1	7	1					1	1	3	1			10	30.01	—	.02	.....	.11	.13	—	.13	
10.....	8	6	14		7							1	2	1		1	11	29.94		.0	.....	.04	.04	—	.04	
11.....	6	7	13	1	4						1	1	3	1		1	8	30.00	+	.05	.03	.....	.08	+	.08	
12.....	8	5	13		4					1	1		3		1	3	9	30.03	+	.06	.....	.07	.13	—	.01	
13.....	6	4	10		2					1	2		1		1	2	6	29.90	—	.05	.04	.09	.18	—	.10	
14.....	4	10	14	1	5						1	1	3			4	8	29.97	—	.01	.02	.04	.07	—	.03	
15.....	8	7	15		2						3	2	3	1		3	8	29.84	—	.07	.....	.09	.16	—	.16	
16.....	6	7	13		6						2		1	1		1	7	29.74	—	.06	.05	.05	.16	—	.06	
17.....	4	6	10		3	1						1	1			1	8	29.88	+	.08	.11	.....	.19	+	.19	
18.....	2	3	5	1								2	1			1	2	30.02	+	.08	.05	.03	.16	+	.10	
19.....	5	6	11		3						2	1	3			1	6	29.97	+	.02	.....	.13	.15	—	.11	
20.....	5	1	6			1					2		1			2	1	29.92	—	.04	.12	.03	.19	+	.05	
21.....	7	6	13		5				1				3				11	30.11	+	.11	.04	.....	.15	+	.15	
22.....	2	5	7		2		2				1	1	1				5	30.09	—	.02	.04	.04	.10	—	.02	
23.....	6	7	13	1	1		1				3	1		1	1	5	4	30.13	+	.04	.02	.03	.09	+	.03	
24.....	9	9	18		5				1		1	2	3	2		1	11	30.11		.0	.01	.03	.04	—	.02	
25.....	9	9	18		1	1				2	5	1	2	1	1	2	5	30.05	—	.02	.....	.06	.08	—	.08	
26.....	6	4	10		2				1		1	2	1	1		1	7	30.03	+	.02	.02	.04	.08		.0	
27.....	4	5	9		2	1						1	1	1		1	7	30.04	+	.02	.02	.03	.07	+	.01	
28.....	4	2	6				1	1	1		1		1				2	30.07	+	.05	.....	.04	.09	+	.01	
29.....	1	4	5		1						1	1	1				2	30.03	+	.02	.01	.05	.08	—	.02	
30.....	5	7	12		5	1					1	2		1		2	7	30.11	+	.07	.06	.03	.16	+	.10	
31.....	3	3	6	1	2							1	1			1	4	30.19	+	.08	.01	.03	.12	+	.06	
Totals and means.	182	177	359	11	94	7	8	3	2	3	7	43	28	50	15	6	47	205	19	30.07	+1.09	.90	1.55	3.98	+1.28	—1.28

diseases, and ages, also daily meteorological conditions and variations divided under 21 heads. are excluded.

JULY, 1880.

Meteorological conditions.																
Thermometrical.										Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Record of dry bulb.																
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperatures.								
73.0	— 3	12	16	31	— 7	86	67	19	68	74.7	NW. 1	2	Rainy...	.31	1	
75.0	+ 1	14	8	23	+ 7	86	66	20	68.5	70.3	W. 3½	3½	Fair.....	.04	2	
72.8	— 10	15	7	32	— 2	82	64	18	62	53.3	N. 9	9	Fair.....		3	
75.5	— 5	16	9	30	+ 2	86	61.5	24.5	64	50	W. 1½	4	Clear.....		4	
76.8	— 2	7	3	12	+ 2	82	68	14	72	75.7	S. 9½	9½	Cloudy..	.18	5	
78.0	— 5	12	6	23	+ 1	85	71	14	70.5	70	NW. 5	5	Cloudy..		6	
80.0	— 4	12	6	22	+ 2	88.5	71	17.5	70	58.3	NW. 4	4½	Clear.....		7	
80.5	— 6	16	11	33	— 1	91	71	20	71.5	64.3	S. 8	8	Fair.....	.03	8	
83.0	— 6.5	14	3.5	23.5	+ 4.5	95	71.5	23.5	74	66.7	SW. 3½	3½	Fair.....	.03	9	
84.7	— 2.5	13	12	27.5	— 1.5	96	75	21	73.5	57	W. 7	7	Clear.....		10	
81.2	— 4	13	12	29	— 3	94	75	19	72.3	59	NW. 6½	6½	Fair.....	(*)	11	
82.5	— 2	14	10	26	+ 2	93	71	22	75.5	70.3	SE. 2½	5	Fair.....		12	
86.5	— 2	18	12	32	+ 4	98	76	22	74.5	57.3	NW. 8½	9½	Clear.....		13	
83.0	— 2	10	15	27	— 7	94	77	17	75.3	65.3	SE. 2½	5	Clear.....	.01	14	
72.2	+ 1	7	10	18	— 2	89.5	73.5	16	74.3	77.3	S. 6	7½	Fair.....	.02	15	
81.2	— 1	17	13	31	+ 3	93	71.5	21.5	73.3	66.7	SW. 6½	6½	Fair.....	(*)	16	
78.5	— 4	12	11	27	— 3	88.5	70	18.5	66.5	50	NW. 6	7½	Clear.....		17	
77.8	— 6	15	7	28	+ 2	87	67	20	66.8	55	NW. 2	6	Fair.....	(*)	18	
79.0	— 6	16	10	32	0	88.5	67	21.5	71.5	67.7	SE. 8½	8½	Fair.....		19	
74.7	— 3	11	17	31	— 9	86	69	17	70	77	S. 4	6	Fair.....	.23	20	
72.0	— 2	10	5	17	+ 3	79	66	13	64.5	65	W. 2½	2½	Cloudy.....		21	
64.5	— 5	1	4	10	— 8	72	62	10	62	85.7	N. 6	6	Rainy...	1.40	22	
71.0	0	14	7	21	+ 7	79	61	18	66	75.3	S. 2	2½	Cloudy.....		23	
76.7	0	13	8	21	+ 5	87	66.5	20.5	69.5	68.3	S. 1½	1½	Fair.....		24	
76.2	— 5	13	9	27	— 1	85	68	17	70	71	NE. 1½	1½	Fair.....		25	
80.7	— 2	17	10	29	+ 5	92	68	24	70.3	59.7	W. 2½	4½	Clear.....		26	
76.5	— 6	10	10	26	— 6	87	69	18	69.5	66.7	N. 3½	4	Clear....	(*)	27	
72.6	— 4	8.5	7.5	20	— 3	80	65	15	65	63	NE. 5½	5½	Fair.....		28	
72.0	— 5	12	6	23	+ 1	80	59.5	20.5	63.5	59.7	NW. 4½	5	Fair.....		29	
72.0	— 7	14	7	28	0	82.5	60	22.5	62.3	54.7	N. 2½	4½	Clear.....		30	
75.7	— 4	15	7	26	+ 4	86	63	23	67.5	63	S. 5½	7	Fair.....		31	
77.2	+ 2	391.5	279	786	+54.5	87					NW.					
	—113.5				—53.5	68.1	18.9	71.5	65.1			5.52			2.25	

TABLE XI.—Showing daily mortality, divided under 19 heads,
AUGUST, 1880.

Day of month.	Mortality.																		Meteorological conditions.							
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.						
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.	
1.....	11	5	16	.....	3	2	1	..	1	.....	4	..	3	..	..	1	10	1	30.12	+	.01	.....	.12	.13	—	.11
2.....	2	6	8	.....	..	..	..	..	..	..	2	1	4	..	..	1	3	2	29.93	—	.07	.01	.12	.20	—	.18
3.....	6	7	13	.....	3	..	..	..	..	..	4	..	2	..	1	3	4	2	29.96	+	.03	.07	.01	.11	+	.09
4.....	6	5	11	.....	1	1	1	..	1	.....	2	1	1	..	..	..	4	1	30.04		0	.10	.....	.10	+	.10
5.....	5	5	10	1	1	..	..	..	..	..	3	1	2	1	..	2	3	2	30.20	+	.09	.03	.....	.12	+	.12
6.....	3	2	5	.....	1	..	..	..	1	..	..	..	1	1	..	..	4	1	30.18	—	.03	.03	.02	.08	—	.02
7.....	8	11	19	1	2	..	1	..	1	..	4	2	3	..	..	1	10	1	30.22	+	.05	.03	.04	.12	+	.04
8.....	5	9	14	.....	3	..	1	..	..	..	4	1	1	1	..	3	5	2	30.18	+	.01	.....	.09	.10	—	.08
9.....	5	6	11	.....	2	..	..	..	1	..	..	..	2	2	..	1	7	..	29.99	—	.07	.....	.13	.20	—	.20
10.....	3	7	10	.....	3	..	..	..	1	..	3	..	2	..	..	1	6	..	29.91		0	.03	.07	.10	—	.04
11.....	3	8	11	1	..	..	2	..	..	..	1	3	1	1	..	..	4	2	29.99	+	.07	.02	.....	.09	+	.09
12.....	6	7	13	.....	2	..	1	..	..	..	2	2	1	..	..	3	5	..	30.06	+	.04	.05	.01	.10	+	.08
13.....	4	5	9	1	1	..	..	..	1	..	3	..	1	1	1	1	2	..	30.05	+	.05	.....	.12	.17	—	.07
14.....	3	5	8	.....	1	..	..	..	..	..	..	..	1	1	..	1	5	3	29.89	—	.05	.01	.10	.16	—	.14
15.....	4	10	14	.....	3	..	1	1	1	..	1	1	4	..	..	1	10	3	30.06	+	.09	.17	.....	.26	+	.26
16.....	2	..	2	1	..	..	..	..	1	..	..	..	2	..	..	1	1	..	30.35	+	.19	.05	.....	.24	+	.24
17.....	5	5	10	1	2	..	..	..	..	..	1	1	..	..	..	2	4	..	30.36	+	.05	.....	.08	.13	—	.03
18.....	6	8	14	1	..	3	..	2	1	1	1	..	..	..	..	2	10	1	30.20	—	.06	.....	.12	.18	—	.18
19.....	9	3	12	.....	3	1	..	1	..	..	2	1	..	..	..	..	7	..	29.97	—	.07	.....	.17	.24	—	.24
20.....	2	4	6	.....	1	..	..	..	..	..	2	..	..	..	..	3	2	1	29.79	—	.09	.01	.07	.17	—	.15
21.....	7	3	10	1	1	..	1	..	..	..	1	..	..	..	..	1	5	2	29.80		0	.06	.....	.06	+	.06
22.....	2	5	7	.....	1	..	..	..	..	..	3	1	1	..	..	1	2	..	29.96	+	.12	.10	.06	.28	+	.16
23.....	3	1	4	.....	..	..	..	..	1	..	1	..	1	1	..	2	2	..	30.11	+	.10	.03	.....	.13	+	.13
24.....	4	10	14	1	4	..	..	..	..	..	1	1	2	2	..	2	9	..	30.07	+	.02	.....	.09	.11	—	.07
25.....	4	3	7	.....	1	..	..	..	..	..	..	1	1	..	1	1	4	..	30.00	—	.02	.10	.10	.22	—	.02
26.....	4	7	11	.....	3	1	..	..	..	..	2	3	..	1	..	1	5	..	30.16	+	.13	.01	.....	.14	+	.14
27.....	4	6	10	.....	3	..	1	..	..	..	1	1	2	..	..	1	7	2	30.17	+	.05	.....	.08	.13	—	.03
28.....	7	4	11	.....	4	..	..	..	1	..	2	1	1	..	..	1	5	..	30.13	+	.05	.....	.09	.14	—	.04
29.....	4	3	7	.....	2	..	..	..	..	..	3	..	..	..	..	..	5	..	30.04	+	.01	.01	.09	.11	—	.07
30.....	4	5	9	.....	4	1	..	..	..	..	2	1	1	..	..	..	7	1	30.07	+	.05	.07	.06	.18	+	.06
31.....	4	3	7	1	1	..	..	..	1	..	1	..	..	..	..	1	2	..	30.15	+	.09	.....	.04	.13	+	.05
Totals and means.	145	168	313	10	56	9	9	5	7	7	..	56	23	40	12	3	38	159	27	30.07	+1.30 — .46	.99	1.88	4.63	+1.62 — 1.67	

classified by color, different diseases, and ages, &c.—Continued.

AUGUST, 1880.

Meteorological conditions.																
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.	
Record of dry bulb.																
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.		Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
78.5	—	4	16	9	29	+ 3	88.5	67	21.5	70.8	63.7	S. 7	7	Clear.....	.....	1
82.2	—	4	15	8	27	+ 3	91	70	21	73.3	63	S. 8½	9	Fair.....	(*)	2
75.5	—	9	10	10	29	— 9	87	71	16	72	81.7	NE. 1½	2½	Thunderstorm.	1.01	3
71.7		0	3	7	10	— 4	77	67	10	69.5	88.7	W. 3½	6½	Cloudy..		4
67.7	—	5	9	6	20	— 2	74	63	11	62	69.3	NE. 6	6½	Rainy...	.97	5
70.5	—	2	12	7	21	+ 3	77	62	15	64	66.3	NE. 3½	5	Cloudy..	.12	6
74.0	—	4	16	8	28	+ 4	83	63	20	66.3	66.3	N. 1½	2½	Clear....	.....	7
72.2	—	8	15	10	33	— 3	83	61	22	66.3	70.7	S. 4½	5	Clear....	.....	8
76.2	—	4	17	7	28	+ 6	86	62.5	23.5	69.5	69.3	SE. 5½	6	Clear....	.....	9
77.5	—	5	15	14	34	— 4	88	70.5	17.5	71	74.7	S. 3	3½	Fair....	.06	10
74.7	+	1	5	6	12	0	82	70	12	69.8	76.0	NW. 3½	4	Fair....	(*)	11
74.7	—	3	13	10	26	0	85	66	19	66.8	64	N. 5	5½	Fair....	.....	12
74.7	—	7	17	8	32	+ 2	85	62	23	63.5	52.3	NW. 4½	5	Clear....	.....	13
76.5	—	5	18	14	37	— 1	90	66	24	69.5	66.3	W. 4½	4½	Fair....	.12	14
73.0	—	6	10	5	21	— 1	80	65	15	63.8	61.3	NW. 5½	5½	Fair....	.18	15
68.7	—	10	11	5	26	— 4	76	59	17	59.5	54.7	E. 5½	6½	Clear....	.....	16
71.0	—	2	10	7	19	+ 1	80	65	15	62	57.3	S. 4½	5	Fair....	.....	17
70.2	—	4	9	5	18	0	75	62	13	63.5	66.7	SE. 4½	5½	Cloudy..	.05	18
76.5	+	3	8	5	16	+ 6	84	69	15	71	73.7	S. 10	10	Cloudy..	.13	19
79.0	—	5	14	5	24	+ 4	88	67	21	74	76	SW. 3½	4	Fair....	.01	20
81.5	—	1	8	7	16	0	90	73	17	74	68	NW. 3	3½	Fair....	.....	21
79.5	—	6	12	7	25	— 1	87	73	14	75	69	NE. 2	3	Fair....	(*)	22
80.2	—	4	11	6	21	+ 1	89	72	17	76	71.7	E. 4	5	Fair....	(*)	23
82.0	—	3	14	11	28	0	92	73	19	75.3	71.3	S. 5	5½	Fair....	(*)	24
79.2	—	4	17	19	40	— 6	95	72	23	74.5	78.7	S. 2½	6½	Fair....	.65	25
68.7	—	7	5	4	16	— 6	74	66	8	64.3	78	NE. 7½	7½	Clear....	.02	26
72.7	—	2	13	6	21	+ 5	81	62	19	66.5	68.7	E. 3½	5	Clear....	.....	27
78.0	—	1	12	6	19	+ 5	85.5	67	18.5	72.5	74.3	S. 5½	5½	Clear....	.....	28
79.2	—	1	13	15	29	— 3	93	72	21	74.3	75.7	S. 3½	6	Fair....	.02	29
73.0	—	3	12	16	31	— 7	85	70	15	70	83.7	NE. 7½	8	Fair....	.25	30
67.7	—	4	5	.....	9	+ 1	69	63	6	69	93.0	NE. 4½	4½	Cloudy..	.24	31
75.1	+	4	365	253	745	+44						S.		.....	3.83	
	—	123				—51	83.9	66.8	17.1	69.0	70.8		5.46			

TABLE XI.—*Showing daily mortality, divided under 19 heads,*
SEPTEMBER, 1880.

Day of month.	Mortality.																			Meteorological conditions.							
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.							
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.		
1	4	2	10		1	1	1					4	1				2	3	30.17	+	.05	.01	.04	.10	+	.02	
2		4	11	1	4							1		2			3	5	30.12	+	.01		.08	.09	-	.07	
3		3	10		1	1	1		1			1		3			4	3	29.95	-	.03		.16	.19	-	.19	
4		2	16	2	2	1						1		3		1	5	5	29.90	+	.03	.02	.06	.11	-	.01	
5		4	12			1						1	1	3			3	4	29.96	+	.08	.01	.02	.11	+	.07	
6		3	10															5	29.94	+	.03	.02	.08	.13	-	.03	
7	10	5	15		1					1		6	3	1				4	29.94		0	.03		.03	+	.03	
8		4	11		2	2			1	1			1		1			6	30.01		0	.08		.08	+	.08	
9	4	3	7			1				1		1	1				1	2	30.03		0	.07	.06	.13	+	.01	
10	4	12	16		1	1		1	1		4	2	3				2	10	30.27	+	.16	.09		.25	+	.25	
11	4	5	9			1					2	1	2	1				5	30.33	+	.10		.11	.21	-	.01	
12	4	1	5			1						1	1		1			3	30.18		0		.16	.16	-	.16	
13	3	2	14		1	1			1		2	2	3	2			4	6	29.93	-	.12	.06	.15	.33	-	.21	
14	3	3	6		1	2					1	1	3	1			0	5	30.03	-	.10	.05	.02	.17	-	.07	
15	2	3	14		2	1		4	1		1	1				1	2	8	30.01	+	.05		.12	.17	-	.07	
16	2	3	5				1				1	3	1				1	2	30.04	+	.10		.07	.17	+	.03	
17	2	2	17		1	2					3	2	5				1	3	30.06	+	.07	.02	.04	.13	-	.05	
18	1	12	13	1		4			1	1	2	2	2	1			1	9	30.13	+	.09	.02	.04	.15	+	.07	
19	3	2	5			1	1					1					1	0	30.13	+	.04		.06	.10	-	.02	
20	3	2	14		2	2	1				2	1	1				1	6	30.05		0	.01	.10	.11	-	.09	
21	3	3	6								1		2	1			1	3	30.10	-	.09	.03	.05	.17	+	.07	
22	3	3	12	1					1			2	1	1	1	1	5	4	30.22	+	.16	.02	.07	.25	+	.11	
23	6	6	12									2	1	1			2	8	30.33	+	.12			.12	+	.12	
24	3	3	14			2			1		1	2	1	2			4	4	30.31	+	.01		.04	.05	-	.03	
25	1	6	16		2	3			3	1		3	2		1		2	9	30.20	-	.12		.15	.27	-	.27	
26	5	5	10		2	3											2	3	30.08	+	.25		.11	.36	+	.14	
27	11	8	19		3	1		1			3	4	3				4	5	29.87	-	.18		.18	.36	-	.36	
28	3	4	7		1	1							4	1			1	3	29.81	-	.11	.18		.29	+	.07	
29	11	4	15		4					2		1	1	2			3	6	29.98	-	.07	.12	.04	.23	+	.15	
30	7	6	13			3			1		3		1	1			3	6	30.26	+	.17	.12		.29	+	.29	
Totals and means.	187	155	342	6	32	35	5	0	16	9	2	53	27	55	13	6	60	147	14	30.08	+	1.68	.96	2.01	5.31	+	1.56
																					-	.66				-	1.59

classified by color, different diseases, and ages, &c.—Continued.

SEPTEMBER, 1880.

Meteorological conditions.

Thermometrical.																
Record of dry bulb.										Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.								
74.7	.....	11	5	16	+	82.0	68.0	14.0	71.0	82.3	E. 4	4½	Cloudy	.02	1	
77.2	— 2	11	8	21	+	86.0	70.0	16.0	72.3	77.0	S. 5½	6½	Fair	.....	2	
81.7	— 3	17	8	28	+	92.0	72.0	20.0	75.3	74.0	SW. 5½	5½	Fair	.....	3	
83.0	— 7	16	8	31	+	94.0	72.0	22.0	74.8	67.3	W. 2	3	Clear	.....	4	
82.5	— 6	12	7	25	—	91.0	75.0	16.0	74.5	67.0	NW. 3	3½	Fair	(*)	5	
78.5	— 5	12	15	32	—	90.0	70.0	20.0	71.5	69.0	NW. 8½	8½	Cloudy	.10	6	
68.5	— 5	2	4	11	—	74.0	67.0	7.0	65.8	85.0	NE. 4	4½	Cloudy	1.26	7	
61.0	— 5	4	8	17	—	67.0	56.0	11.0	56.3	71.0	N. 10	10½	Cloudy	.05	8	
55.5	— 4	4	3	11	—	58.0	53.0	5.0	53.5	87.3	N. 13	13	Rainy	1.48	9	
60.2	+ 1	13	11	25	+	71.0	52.5	18.5	55.3	70.3	NW. 10½	10½	Clear	.....	10	
64.2	— 4	21	11	36	+	76.5	51.5	25.0	58.3	68.3	S. 1½	1½	Clear	.....	11	
67.2	— 7	19	8	34	+	78.0	56.0	22.0	61.3	71.0	S. 4	4	Clear	.....	12	
66.0	— 5	14	15	34	—	79.0	60.0	19.0	62.8	81.3	S. 5	5½	Fair	.36	13	
58.5	— 7	10	8	25	—	66.0	52.5	13.5	52.8	64.0	N. 7	7½	Clear	.....	14	
59.7	— 6	17	8	31	+	71.0	48.0	23.0	54.5	69.0	NW. 4½	4½	Clear	.....	15	
65.7	— 3	17	8	28	+	76.0	54.0	22.0	57.5	58.3	W. 3½	3½	Fair	.....	16	
72.5	— 7	24	9	40	+	86.0	55.0	31.0	65.0	65.7	W. 4	4½	Fair	.....	17	
74.2	— 9	21	13	43	—	88.0	61.0	27.0	67.5	69.0	SW. ½	½	Clear	.....	18	
74.5	— 10	24	13	47	+	88.0	61.0	27.0	67.5	69.0	S. 1	1	Clear	.....	19	
76.2	— 9	19	6	34	+	88.0	64.0	24.0	69.5	71.7	S. 2½	3½	Fair	.....	20	
69.7	— 11	9	8	28	—	79.0	64.0	15.0	60.5	35.7	NW. 9	10	Fair	(*)	21	
61.7	— 11	15	13	39	—	73.0	53.5	19.5	55.3	61.7	NW. 4	4½	Clear	.....	22	
60.0	— 2	8	6	16	0	67.0	54.5	12.5	54.3	64.3	NE. 2½	2½	Cloudy	(*)	23	
63.5	— 1	12	7	20	+	71.0	55.0	16.0	58.5	72.3	S. 1½	2½	Cloudy	.....	24	
67.7	— 7	23	9	39	+	81.0	54.0	27.0	63.3	70.3	S. 2½	2½	Fair	.....	25	
68.7	— 13	21	10	44	—	80.0	55.0	25.0	61.8	73.7	S. 1½	1½	Clear	.....	26	
74.2	0	11	4	15	+	82.0	67.0	15.0	70.0	80.3	SW. 4½	5½	Cloudy	.....	27	
61.5	— 13	4	7	24	—	73.0	55.0	18.0	56.3	70.7	W. 11	12	Fair	.15	28	
60.2	— 3	13	11	27	—	71.0	52.0	19.0	52.3	56.0	W. 4½	4½	Fair	.....	29	
53.0	— 7	10	11	28	—	62.0	46.0	16.0	44.8	45.7	NW. 8½	8½	Clear	.....	30	
63.1	+ 1 — 172	414 13.8	262 8.7	849 28.3	+ 67 — 86	78.0	59.1	18.9	62.1	68.9	S.	5.36	.....	3.42		

TABLE XI.—Showing daily mortality, divided under 19 heads,
OCTOBER, 1880.

Day of month.	Mortality.																			Meteorological conditions.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1.....	9	4	13		1					1		4	1	3	2		4	5		30.36	+.11		.11	.22	
2.....	5	8	13		2	2	1		2			2	1				1	6		30.27	+.02		.10	.12	-.08
3.....	8	8	16		1	1	1		1	1		1	2	1	2		2	7	1	30.18	+.01	.02	.10	.13	-.07
4.....	6	7	13					1		1		1	2	2	1		4	6	2	30.04	-.08	.08	.12	.28	-.12
5.....	9	6	15		3		2		2	1		1	1		2		2	7		30.00	+.01		.08	.09	-.07
6.....	9	3	12		2	2			2			3	1				2	5		30.04	+.02	.11	.02	.15	+.11
7.....	4	5	9			1			1				1	1			1	6	1	30.24	+.16	.05	.04	.25	+.17
8.....	10	3	13			1			1	1		2	1	1			4	5		30.28	+.04		.03	.07	+.01
9.....	7	6	13		1	2	1		2	1		1		2			3	8	1	30.28	+.02	.03	.03	.08	+.02
10.....	5	8	13		3	2					1	4	1			1	2	6	1	30.29	+.04	.02	.06	.12	0
11.....	11	2	13	1	1		1		2			3			1		4	5	1	30.23	+.02		.12	.14	-.10
12.....	4	7	11		2	1								1		1	4	5	1	30.14	-.05	.15	.09	.29	+.01
13.....	4	4	8							1		3					1	3		30.32	+.15	.02	.06	.23	+.11
14.....	5	2	7				1					2				1				30.19	+.01		.19	.20	-.18
15.....	4	7	11		4	1				1		3			1		2	6		29.99	-.07		.10	.17	-.17
16.....	6	10	16		4	2	1					3	1	1	1		2	6	1	29.82	-.07	.01	.10	.18	-.16
17.....	9	4	13		3				1				1	3		1	2	8	2	29.94	+.01	.24		.25	+.23
18.....	7	4	11	1		2			1	2				1	1		2	3		30.34	+.25	.14	.01	.40	+.38
19.....	3	4	7			1						2	1	1				4	1	30.36	+.09		.21	.30	-.12
20.....	3	7	10			1			1			3	2	2				5	1	30.31	+.06		.05	.11	+.01
21.....	4	6	10	1	1							1		3			3	4	2	30.21	-.01		.12	.13	-.13
22.....	5	5	10	1	1				1	1			2	2			1	7	1	29.84	-.13		.29	.42	-.42
23.....	6	2	8			2						2	1			1	2	1		29.86	-.03	.25		.28	+.22
24.....	8	8	16				1		2			8		2			3	2		30.23	+.18	.14		.32	+.32
25.....	5	3	8		1							3		2			1	2	1	30.25	+.08		.19	.27	-.11
26.....	7	8	15			1	1			1		4	1	2			2	5		29.93	-.15	.04	.15	.34	-.26
27.....	2	6	8			1			1			3	1	2			1	3	1	30.13	+.11	.18		.29	+.29
28.....	7	5	12		2				2			3		1			2	6	2	30.30	+.09	.01	.01	.11	+.09
29.....	5	6	11						3	1		3	1				4	2		30.21	-.01		.12	.13	-.13
30.....	3	3	6			1	1		1			1						2		29.67	-.26		.36	.62	-.62
31.....	2	7	9		1	2			1			1	1	1			1	5	1	29.89	+.13	.34		.47	+.47
Totals and means.	182	168	350	4	33	26	11	1	27	13	2	67	23	34	11	5	62	145	21	30.13	+1.60 -.87	1.83	2.86	7.16	+2.44 -2.74

lassified by color, different diseases, and ages, &c.—Continued.

OCTOBER, 1880.

Meteorological condition.

Thermometrical.																
Record of dry bulb.										Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.								
54.7	— 8	23	9	40	+	67.0	38.5	28.5	47.8	57.3	S.	2	2½	Clear ...	.....	1
59.0	— 11	26	11	48	+	72.0	43.0	29.0	52.5	64.7	S.	3½	3½	Clear ...	.....	2
63.2	— 9	23	10	42	+	74.0	47.5	26.5	57.0	66.3	S.	4½	4½	Fair ...	.....	3
68.2	— 2	17	13	32	+	80.0	57.0	23.0	63.8	76.0	S.	10	10	Fair	.28	4
59.5	— 10	6	2	18	—	64.0	55.0	9.0	57.3	86.3	N.	½	5	Cloudy ..	.48	5
61.0	— 4	14	11	29	—	76.0	54.5	21.5	53.0	60.7	NW.	4½	6	Fair ...	.....	6
51.5	— 13	16	13	42	—	65.0	44.0	21.0	46.0	62.3	N.	2½	2½	Clear ...	.....	7
54.5	— 7	24	11	42	+	67.0	39.0	28.0	49.5	68.3	S.	2½	2½	Clear ...	.....	8
58.7	— 4	17	10	31	+	70.0	47.5	22.5	54.5	75.3	NE.	4	4½	Fair ...	.....	9
62.5	— 8	26	14	48	+	76.0	48.0	28.0	57.8	73.7	SW.	1	2½	Clear ...	.....	10
66.7	— 9	25	10	44	+	80.0	50.5	29.5	60.8	71.0	S.	2½	2½	Clear ...	.....	11
63.7	— 11	19	15	45	—	80.0	55.0	25.0	56.5	64.7	N.	4½	4½	Fair	(*)	12
54.2	— 14	17	11	42	—	65.0	45.5	19.5	44.8	44.3	N.	5	5	Clear ...	.....	13
54.5	— 13	26	10	49	+	68.0	38.5	29.5	47.5	59.0	S.	3½	4	Clear ...	.....	14
66.7	— 1	23	11	35	+	80.5	50.0	30.5	60.3	67.0	S.	3½	3½	Clear ...	.....	15
72.5	— 4	18	8	30	+	81.5	60.0	21.5	64.5	64.7	S.	13½	14	Fair	(*)	16
54.2	— 8	.....	15	23	—	70.0	46.0	24.0	52.8	90.0	SW.	2½	4½	Cloudy ..	.23	17
47.0	— 7	12	10	29	—	57.0	40.0	17.0	38.3	36.7	NW.	4½	5	Clear ...	.....	18
44.7	— 13	23	9	45	+	57.0	30.5	26.5	39.6	62.0	S.	1½	2½	Clear ...	.....	19
50.0	— 4	16	8	28	+	60.0	41.0	19.0	45.8	70.0	SE.	1	4½	Clear ...	.....	20
54.7	— 6	19	7	32	+	64.0	42.5	21.5	51.4	79.7	S.	1½	1½	Cloudy ..	.....	21
56.0	— 3	6	3	12	0	59.5	50.0	9.5	54.3	89.7	NE.	3½	4½	Cloudy ..	.07	22
48.0	— 7	4	8	19	—	55.0	44.0	11.0	41.3	51.0	NW.	12½	13½	Fair	.20	23
43.5	— 2	6	8	16	—	49.0	40.0	9.0	37.3	49.0	NW.	10	10	Snow ...	(*)	24
43.5	— 7	18	8	33	+	54.0	33.0	21.0	38.5	60.7	NW.	2½	3	Clear ...	.....	25
54.7	— 3	21	4	28	+	62.0	38.0	24.0	47.8	57.7	S.	7½	7½	Fair	.01	26
53.0	— 8	10	9	27	—	61.0	49.0	12.0	46.8	60.7	N.	5½	7½	Fair	.03	27
40.0	— 9	.....	.....	9	—	49.0	39.0	10.0	39.3	91.0	NE.	7½	7½	Rainy ..	.23	28
46.5	— 1	8	.....	9	+	49.0	39.0	10.0	45.8	95.0	NE.	4	4	Cloudy ..	.03	29
61.0	— 6	8	.....	14	+	63.0	48.0	15.0	60.3	96.0	NE.	2½	5½	Rainy ..	.65	30
50.7	— 8	1	10	19	—	58.0	45.0	13.0	44.5	56.7	NW.	14	14	Fair ....	.....	31
55.5	+ 7 — 213	472	268	960	+106 — 108	65.6	45.1	20.5	50.2	67.9	S.		5.57	.....	2.21	

TABLE XI.—Showing daily mortality, divided under 19 heads,
NOVEMBER, 1880.

Day of month.	Mortality.																		Meteorological conditions.								
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.							
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.		
1.....	4	4	8						1	1		4	1				1	3	1	30.08	+	.14	.05	.14	.33	+	.05
2.....	5		5						2			2					1	3		30.23	+	.12	.07	.01	.21	+	.19
3.....		6	6			1	1					2		2				3		30.33	+	.08	.05	.04	.17	+	.09
4.....	6	5	11			1						3	1	3	1		3	2	2	30.20	—	.05		.16	.21	—	.21
5.....	7	9	16		1	3	1		2	1			3	1				7	1	30.11	—	.02	.02	.03	.07	—	.03
6.....	3	2	5							1		1		2			1	3		29.72	—	.08		.50	.58	—	.58
7.....	6	3	9									3		2			1	2		30.05	+	.42	.17		.59	+	.59
8.....	3	4	7			1				1				2			2	5		30.19	+	.11	.03	.07	.21	+	.07
9.....	3	3	6		1					1		1		1			1	3	1	30.29	+	.08	.06	.01	.15	+	.13
10.....	3	2	5									1		2			1	3		30.13	+	.01		.32	.33	—	.31
11.....	6	5	11	2					1				1	1			1	6	1	29.98	—	.12	.17		.29	+	.05
12.....	7	4	11	1	2	2						1		2	1		1	5	1	30.23	+	.15	.14		.29	+	.29
13.....	9	4	13			1						7					3	4	1	30.46	+	.12	.02	.05	.19	+	.09
14.....	5	5	10	1			1		1			2	1		1	1	1	1		30.22	—	.07		.23	.30	—	.30
15.....	8	5	13		1				4			1	2	2			1	8	1	29.95	—	.14	.04	.10	.28	—	.20
16.....	5	3	8						1	1		1	1	2		1	2	3		20.28	+	.20	.23		.43	+	.43
17.....	4	4	8						1				4	1		1	1	3		30.40	+	.09		.10	.19	—	.01
18.....	7	1	8						1			1		2		1	1	1	1	30.26	—	.17	.17	.02	.36	—	.02
19.....	3	3	6				1	1				2	1	1			2	1		30.33	+	.11		.18	.29	—	.07
20.....	3	5	8				1		1	1			1	1	1		1	5	1	30.03	—	.20	.19	.18	.57	—	.19
21.....	10	5	15								1	2	5	4			7	6	3	30.44	+	.28	.16		.44	+	.44
22.....	3	10	13		1	1						1	2	4	1		2	4		30.68	+	.24		.10	.34	+	.14
23.....	6	11	17	1	1	1						5	2	2			1	9		30.72	+	.06	.05	.03	.14	+	.08
24.....	5	3	8							1		2	1			1	2	5	1	30.62	+	.04		.25	.29	—	.21
25.....	4	6	10		1				1	1		3	1	1			1	6		30.34	—	.14	.03	.09	.26	—	.20
26.....	8	2	10	2								3	2	2			1	2	1	30.43	+	.13	.01	.04	.18	+	.10
27.....	4	3	7							1		1		2		1		2	1	30.45	+	.04		.02	.06	+	.02
28.....	4	4	8							1		5	1				2	1		30.15	—	.13		.25	.38	—	.38
29.....	6	1	7							1		1	1	2		1	1	4	1	30.16	—	.05	.22		.27	+	.17
30.....	10	1	11			2			1	2			2	1	1		1	3	1	30.31	+	.15		.15	.30		
Totals and means.	157	123	280	7	8	13	4	2	16	14	1	55	33	45	6	7	43	113	19	30.26	+2.58 -1.17	1.88	3.07	8.70	+2.93 -2.71		

classified by color, different diseases, and ages, &c.—Continued.

NOVEMBER, 1880.

Meteorological conditions.															
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant directions and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
46.2	— 11	21	9	41	+ 1	58.0	34.5	23.5	41.0	64.0	SW. 4	4	Clear.....		1
50.0	— 5	20	14	39	+ 1	63.0	38.0	25.0	44.0	57.3	S. 1½	2	Clear.....		2
51.5	— 9	20	5	34	+ 6	60.0	37.0	23.0	46.5	67.7	SE. 5	5½	Cloudy..	(*)	3
57.5	— 2	9	.....	11	+ 7	62.0	49.0	13.0	56.3	91.3	NE. 5	5	Cloudy..	.62	4
63.2	— 1	7	4	12	+ 2	68.0	58.0	10.0	61.0	87.7	W. 2	2½	Cloudy..	.06	5
66.5	— 1	7	.....	8	+ 6	70.0	59.0	11.0	64.5	89.0	SE. 7	7½	Cloudy..	.16	6
44.2	— 26	7	8	41	— 27	69.0	41.0	28.0	37.0	42.3	NW. 9½	10½	Clear....	.07	7
45.2	— 8	21	9	38	+ 4	57.0	33.0	24.0	39.5	57.0	S. 3½	4	Clear.....		8
48.7	— 5	19	13	37	+ 1	62.0	39.0	23.0	44.0	66.0	S. 1½	1½	Clear.....		9
56.5	— 3	18	2	23	+ 13	63.0	39.0	24.0	53.8	79.0	SE. 0	7½	Cloudy..	.43	10
58.2	— 0	7	14	21	— 7	67.0	50.0	17.0	52.3	65.7	W. 4	5½	Clear....	.15	11
52.5	— 4	12	11	27	— 3	62.0	47.0	15.0	41.5	31.0	W. 7½	9	Clear.....		12
37.2	— 9	.....	6	15	— 15	48.0	35.0	13.0	34.8	73.0	N. 5½	5½	Cloudy & snow.	.01	13
37.0	— 0	4	2	6	+ 2	40.0	34.0	6.0	46.5	71.7	NW. 3	3	Cloudy..	.01	14
36.5	— 5	8	3	16	0	42.0	32.0	10.0	33.0	66.0	NW. 1½	2½	Fair.....		15
38.7	— 9	21	10	40	+ 2	51.0	28.0	23.0	34.8	64.7	S. 2	2	Clear.....		16
43.0	— 2	14	9	25	+ 3	51.0	32.0	19.0	40.0	75.3	E. 1½	1½	Cloudy..		17
35.0	— 4	6	15	25	— 13	48.0	26.0	22.0	31.8	70.0	NW. 6	6	Cloudy..	(*)	18
29.2	— 15	13	1	29	— 3	33.0	19.0	14.0	26.0	62.0	W. 2	4½	Fair.....		19
33.2	— 0	2	.....	2	+ 2	34.0	30.0	4.0	30.0	73.3	NW. 3½	4½	Sleet & rain.	.09	20
30.7	— 7	11	9	27	— 5	39.5	26.0	13.5	28.3	72.3	W. 5½	7½	Clear.....		21
20.5	— 15	14	8	37	— 9	28.0	12.5	15.5	18.3	68.7	NW. 5	5½	Clear.....		22
22.5	— 5	14	6	25	+ 3	29.0	12.5	16.5	20.0	67.7	NW. 6	6	Clear.....		23
27.2	— 7	15	.....	22	+ 8	31.0	13.0	18.0	25.8	83.7	S. 3½	3½	Cloudy..		24
30.7	— 0	3	5	8	— 2	36.0	28.0	8.0	29.3	82.7	NE. 3	3½	Cloudy & snow.	.04	25
24.7	— 2	.....	3	5	— 5	29.0	22.0	7.0	24.4	73.7	N. 4½	4½	Cloudy & snow.	.17	26
29.7	+ 1	9	4	14	+ 6	36.0	22.0	14.0	28.3	82.0	NW. 2	2	Cloudy..		27
32.7	+ 1	3	.....	4	+ 4	34.0	28.0	6.0	32.3	92.7	NE. 2	2½	Rainy...	.63	28
38.7	— 0	11	7	18	+ 4	45.0	32.5	12.5	35.8	77.0	NW. 4	4	Cloudy..		29
33.7	— 7	5	2	14	— 4	37.0	30.0	7.0	30.0	61.3	E. 2	2½	Cloudy..	.04	30
40.7	+ 2 — 162	321	179	664	+ 75 — 93	48.4	32.9	15.5	37.7	70.5	N. W.	4.54		2.48	

TABLE XI.—Showing daily mortality, divided under 19 heads,
DECEMBER, 1880.

Day of month.	Mortality.																		Meteorological conditions.						
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily means.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1.....	7	3	10		1		1		1	1			1	1	1		2	3		29.86	— .45	.22	.05	.72	— .28
2.....	4	2	6	1			1		1			1					3	2	1	30.16	— .13	.16	.01	.30	— .28
3.....	3	6	9				2					2	3				1	3	1	30.26	— .09		.10	.19	— .01
4.....	4	9	13		2					1		1	4	4			2	6	1	30.09	— .03		.16	.19	— .19
5.....	7	3	10		1					1		4	1	1		1	1	2		29.74	— .25	.07	.11	.43	— .29
6.....	1	4	5	1									1	1			1	2		29.87	— .11	.11	.06	.28	— .16
7.....	13	5	18		1				2	1		3	2	1		1	2	8	3	30.20	— .22	.12		.34	— .34
8.....	7	6	13				1		3			1	2	2			1	7	1	30.15	— .18	.24		.42	— .06
9.....	5	1	6									1	2		1		3			30.51	— .20	.06	.04	.30	— .22
10.....	5	8	13		2							6	2	1	1		1	5	1	30.56	— .05	.06	.07	.18	— .04
11.....	3	3	6									2		2			3	2		30.29	— .09		.29	.38	— .38
12.....	9	2	11			1	1	1				2	2	1			4	2	1	29.86	— .18		.21	.39	— .39
13.....	6	2	8										1	4		1	2	2		29.87	— .04	.19		.23	— .15
14.....	6	5	11		1	1		1					2	2	2		4	4		29.77	— .02		.27	.29	— .25
15.....	14	4	18							2		4	2	4	1		7	6	2	29.89	— .18	.10	.05	.33	— .23
16.....	8	2	10						2		1	1			1		2	3		29.94	— .02	.09	.02	.13	— .05
17.....	8	2	10		1					1		1	3				2	5	1	30.00	— .05		.06	.11	— .01
18.....	10		10						1	2			1	1		1	3	2		29.95	— .07	.12	.02	.21	— .03
19.....	9	3	12			1			2			3	2	2			2	3		30.13	— .14	.02	.02	.18	— .14
20.....	2	3	5									2	1	2			1	3		29.93	— .02		.31	.33	— .33
21.....	5	4	9						1			1	5	1	1		1	3		29.89	— .02	.18		.20	— .16
22.....	7	1	8		1							3	1	2				3		30.26	— .21	.14		.35	— .35
23.....	5	6	11							1		2	4	3			2	4		30.35	— .05		.03	.08	— .02
24.....	5	6	11		1				1	2		1	2	1	1		1	7	1	30.35	— 0	.05	.02	.07	— .03
25.....	9	3	12		1		1			1		1	2	3			4	4		30.15	— .06		.25	.31	— .31
26.....	7	6	13		1				1			3	3	1	1	1	1	6		29.91	— .11	.09	.11	.31	— .13
27.....	3	5	8									4		2	1		1	2		29.89	— .01	.01	.05	.07	— .05
28.....	7	2	9									2	2		2	1	2	2		30.09	— .18	.05		.23	— .23
29.....	9	9	18		3				1	1		5	3	1			3	8		29.91	— .12	.04	.13	.29	— .21
30.....	7	5	12					1		3		1	3	1			2	6	3	30.29	— .24	.27		.51	— .51
31.....	7	4	11	1	2							2		1	1	1	2	3	1	30.40	— .06		.11	.17	— .05
Totals and means.	202	124	326	3	18	3	7	3	16	17	1	59	57	45	14	7	66	118	17	30.08	+1.93	2.39	2.55	8.52	+3.00
																					—1.65				2.88

TABLE XI.—Showing daily mortality, divided under 19 heads,
JANUARY, 1881.

Day of month.	Mortality.																	Meteorological conditions.									
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.							
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.		
1.....	7	5	12			1	1					2	4	2			1	3	1	30.41	+	.09		.06	.15	+	.03
2.....	6	1	7									1	1	2		2	1	2		30.31	—	.07	.05	.05	.17	—	.07
3.....	3	6	9					2				1	1	2		2	3			30.31	—	.01	.07	.05	.13	+	.01
4.....	8	11	19						1			4	5	2	2		5	7		30.14	+	.02		.34	.36	—	.32
5.....	7	1	8												1		1	3	1	29.91	—	.05		.12	.17	—	.17
6.....	9	5	14				1	1	1			4		1	1		7	3		29.83	—	.14	.20		.34	+	.06
7.....	4	6	10	1					1			1	2		1		3	4	1	30.31	+	.20	.32		.52	+	.52
8.....	7	2	9						2			3	1	1		1	3	1		30.52	+	.13		.07	.20	+	.06
9.....	3	2	5									1	2					2		30.23	—	.08		.31	.39	—	.39
10.....	3	4	7			1		1				3					1	1		30	—	.28	.29		.57	+	.01
11.....	7	8	15	1								4	4	3			1	7	2	30.15	+	.21		.21	.42		0
12.....	11	2	13									2	3	2	1		5	5	1	30.22	+	.10	.02	.03	.15	+	.09
13.....	9	3	12			1						3	2	2		1		3		29.89	—	.19		.19	.38	—	.38
14.....	7	3	10			1	1						4				1	2	1	29.92	—	.18	.44		.62	+	.26
15.....	10	9	19									4	6	4			5	7	2	30.18	+	.10		.01	.11	+	.09
16.....	11	4	15					1				6	2	3		1	4	1		30.19		0	.05	.02	.07	+	.03
17.....	3	3	6								1	1	1				1	4		30.48	+	.12	.25		.37	+	.37
18.....	8	1	9							2		2		3			2	2		30.61	+	.13		.16	.29	—	.03
19.....	3	5	8	1								1	1	2		1	8	3	2	30.25	—	.21		.13	.34	—	.34
20.....	8	3	11							1		4	2	1	1	1		2		30	—	.07		.22	.29	—	.29
21.....	5	7	12		1				1			2	3	1		1	2	6	1	29.44	—	.56	.16		.72	—	.40
22.....	6		6						1			1		2			2	2		29.93	+	.27	.23		.50	+	.50
23.....	5	3	8	1					1			1	1	2			3	3		30.14	+	.09	.10	.02	.21	+	.17
24.....	2	7	9		1	1						1	1	2			4	2	1	30.21	+	.04	.01	.03	.08	+	.02
25.....	6	2	8									2	2				3	1	1	30.27	+	.02	.08		.10	+	.10
26.....	7	6	13	1		1			1			1	3	2	1	1	3	5		30.14	—	.01		.22	.23	—	.23
27.....	8	2	10			1						2	1			3	4	3		30.34	+	.24	.05		.29	+	.29
28.....	7	7	14				1		1	1		5	2	1	1		5	4		30.56	+	.17	.04		.21	+	.21
29.....	4	2	6									2	1	1			1	2	1	30.46	—	.01		.17	.18	—	.18
30.....	7	9	16	1								3	5				4	6	2	30.09	—	.27	.08	.11	.46	—	.30
31.....	9	3	12		1		1					2	1		2		1	4	1	30.19	+	.10		.01	.11	+	.09
Totals and means.	200	132	332	6	3	7	5	5	10	3	2	69	61	41	11	12	78	103	18	30.18	+2.03 —2.13	2.44	2.53	9.13	+2.91 —3.10		

classified by color, different diseases, and ages, &c.—Continued.

JANUARY, 1881.

Meteorological conditions.															
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
11	— 11	28	....	39	+ 17	19	—14	33	10	74	NE. 2	3	Fair .....	....	1
20.5	— 2	10	6	18	+ 2	27	14	13	19.5	86.7	N. 1½	3	Snow and clear	.16	2
20.7	— 17	25	2	44	+ 6	30	3	27	19.4	80.3	SW. 1½	2	Fair .....	....	3
30	— 3	10	...	13	+ 7	33	18	15	29.8	96.3	E. 1½	1½	Rain and sleet.	.64	4
33.2	0	1	1	2	0	34	32	2	33	96.7	NE. 4	4	Rainy	.66	5
34.5	+ 1	2	2	5	+ 1	36	33	3	34.3	96.7	W. 2½	3½	Cloudy	.34	6
33.7	— 3	9	8	20	— 2	41	29	12	31	75	NW. 3½	5½	Cloudy .....	....	7
24.2	— 13	9	3	25	— 7	29	18	11	22.3	75.3	NE. 4½	4½	Cloudy .....	....	8
28.2	— 3	9	....	12	+ 6	34	21	13	28.1	98	N. 4½	4½	Rain, sleet, and snow.	1.17	9
33.7	+ 1	5	4	10	+ 2	38	28	10	32.8	90	NW. 5	5	Cloudy	.34	10
26	— 7	2	3	12	— 8	31	23	8	24.5	80.3	NW. 3½	4	Cloudy	.13	11
26.5	— 5	12	5	22	+ 2	34	19	15	24.3	73.3	NW. 3	3½	Fair	(*)	12
39	+ 2	14	1	17	+ 15	44	24	20	35.3	67.7	S. 9½	9½	Cloudy .....	....	13
27.2	— 3	...	20	23	— 23	42	15	27	25	73	NW. 8	11½	Cloudy	.44	14
17	— 10	11	....	21	+ 1	20	8	12	15.5	72.3	N. 1	3½	Cloudy .....	....	15
23.2	— 2	9	3	14	+ 4	27	17	10	22	82.3	E. ½	½	Cloudy .....	....	16
31.2	+ 1	13	7	21	+ 7	39	20	19	28.3	70	NW. 5	5½	Fair .....	....	17
26.7	— 11	11	3	25	— 3	31	18	13	25.3	80.7	SW. 1	1	Fair	(*)	18
30.5	0	4	1	5	+ 3	32	26	6	29.3	85.3	N. 1	2	Cloudy	.07	19
29.5	— 8	10	....	18	+ 2	33	22	11	28.9	94.3	NE. 2	2½	Cloudy	.16	20
37.5	+ 4	1	...	5	+ 5	40	32	8	36.8	94	N. 1	7½	Rainy	1.03	21
35	— 1	2	6	9	— 5	40	31	9	24.3	62.3	NW. 7	7	Clear .....	....	22
30.5	— 5	6	4	15	— 3	35	25	10	28.3	75	W. 5	6½	Fair .....	....	23
26.5	— 6	6	4	16	— 4	30	22.5	7.5	24.3	73	NW. 2½	3	Fair .....	....	24
27	— 3	6	1	10	+ 2	29	22	7	24.5	69.3	NW. 3	3½	Cloudy	(*)	25
31.7	— 7	15	1	23	+ 7	38	19	19	28.3	66.7	W. 4½	5	Clear .....	....	26
20.2	— 17	5	3	25	— 15	31	15	16	17	52	N. 8½	9½	Clear .....	....	27
23	— 4	10	1	15	+ 5	28	14	14	19.8	56	NW. 6½	7	Clear .....	....	28
27.2	— 4	11	4	19	+ 3	32	18.5	13.5	25	66	N. 1½	2½	Cloudy .....	....	29
33	+ 1	6	1	8	+ 6	36	25.5	10.5	30.3	70	NE. 1½	1½	Cloudy .....	....	30
35.2	— 3	9	5	17	+ 1	40	27	13	32.5	72.3	NE. 2½	4	Cloudy	(*)	31
873.8	+ 10	271	99	528	+104								.....	5.14	
28.2	—148				— 70	33.3	20.2	13.1	26.1	77.6		4.4			

TABLE XI.—Showing daily mortality, divided under 19 heads,
FEBRUARY, 1881.

Day of month.	Mortality.																			Meteorological conditions.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrheal diseases, 5 years of age and over.	Diarrheal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1.....	5	7	12	..	..	..	..	..	1	..	..	3	2	2	..	..	3	4	2	30.07	— .14	.22	.12	.48	— .04
2.....	6	6	12	1	..	..	..	..	1	..	..	1	1	3	..	..	3	5	3	30.31	+ .21	..	.08	.29	+ .13
3.....	7	5	12	..	..	..	..	..	..	1	..	3	1	2	..	..	3	1	1	30.24	— .03	.01	.02	.06	— .04
4.....	7	7	14	..	1	1	..	..	..	..	..	3	2	2	..	1	2	7	1	30.29	+ .04	.04	.01	.09	+ .07
5.....	7	8	15	1	2	..	..	..	1	..	..	3	1	1	1	..	4	5	2	30.51	+ .16	.07	..	.23	+ .23
6.....	3	4	7	..	2	..	..	..	..	..	..	1	1	..	..	..	3	..	..	30.75	+ .14	.12	..	.26	+ .26
7.....	4	8	12	1	..	..	..	1	..	..	..	1	4	2	..	..	3	2	1	30.75	+ .01	..	.09	.10	— .08
8.....	2	5	7	..	..	..	..	..	1	..	..	2	2	..	1	..	1	2	..	30.49	— .12	..	.15	.27	— .27
9.....	6	7	13	..	1	..	..	..	1	..	..	1	4	2	..	..	2	3	..	30.20	— .10	..	.24	.34	— .34
10.....	6	7	13	..	..	..	..	..	..	..	..	2	5	1	..	1	3	6	1	29.97	— .20	.15	.02	.37	— .07
11.....	4	5	9	1	..	..	..	..	..	..	..	2	5	..	..	1	2	5	..	30.11	+ .13	..	.11	.24	+ .02
12.....	7	6	13	..	..	..	..	..	..	..	..	2	2	1	2	..	5	3	1	29.50	— .55	.17	.12	.84	— .50
13.....	3	4	7	..	..	..	..	..	..	..	..	2	1	2	1	..	..	1	..	29.89	+ .17	.36	..	.53	+ .53
14.....	4	5	9	..	2	..	..	..	1	..	..	2	2	2	..	..	..	8	..	30.41	+ .16	.26	..	.42	+ .42
15.....	7	5	12	1	..	..	1	..	1	..	..	3	..	1	1	1	1	1	..	30.50	+ .09	..	.16	.25	— .07
16.....	9	7	16	..	..	1	..	..	1	..	..	2	3	1	2	..	4	4	2	30.27	— .24	.30	.11	.65	— .05
17.....	6	12	18	..	1	..	..	..	2	..	..	5	4	2	..	..	2	8	1	30.53	+ .16	.01	.04	.21	+ .13
18.....	4	6	10	..	1	..	..	..	1	..	..	6	2	..	..	..	..	5	..	30.16	— .11	..	.41	.52	— .52
19.....	6	9	15	..	1	1	1	..	1	..	..	4	5	..	..	..	1	6	..	30.09	— .20	.46	..	.66	+ .26
20.....	6	10	16	..	1	3	..	..	1	..	..	3	1	2	1	..	1	7	2	30.31	+ .16	..	.17	.33	— .01
21.....	4	7	11	..	..	..	..	..	..	..	..	5	3	..	..	1	1	4	..	30.15	— .18	.15	..	.33	— .03
22.....	8	2	10	..	..	..	..	..	..	..	..	2	1	1	1	1	4	..	..	30.13	+ .07	..	.25	.32	— .18
23.....	5	7	12	..	..	1	1	1	..	1	..	3	..	3	1	..	..	6	1	30.01	— .24	.34	..	.58	+ .10
24.....	9	4	13	..	..	..	..	..	1	..	..	3	3	2	1	..	2	5	..	30.08	+ .25	..	.19	.44	+ .06
25.....	6	6	12	..	2	1	..	..	1	..	..	2	5	1	..	..	1	5	..	30.19	+ .18	.28	..	.46	+ .10
26.....	15	3	18	..	..	..	..	..	1	..	..	3	1	2	2	..	4	5	1	30.33	+ .13	..	.15	.28	— .02
27.....	7	11	18	..	2	1	..	..	..	..	..	4	5	2	..	1	2	10	..	29.81	— .15	..	.53	.68	— .68
28.....	7	5	12	..	..	..	..	..	..	2	..	1	2	1	..	2	2	6	1	29.53	— .06	.09	.07	.22	— .04
Totals and means.	170	178	348	5	16	10	3	2	10	10	..	71	68	38	14	9	57	129	20	30.20	+1.88 —2.50	3.03	3.04	10.45	+2.31 —2.94

classified by color, different diseases, and ages, &c.—Continued.

FEBRUARY, 1881.

Meteorological conditions.																		
Thermometrical.										Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.		
Record of dry bulb.																		
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.										
19	—	12	...	6	18	—	18	30	12	18	18.6	93	N.	7½	7½	Rain and snow	.41	1
8.5	—	14	10	4	28	—	8	14	2	12	7.3	71	NW.	4½	4½	Fair	.....	2
13.7	—	1	11	5	17	+	5	19	4.5	14.5	12.4	72.3	NW.	5½	5½	Fair	.....	3
18.7	—	6	17	4	27	+	7	26	6.5	19.5	16.8	67	NW.	5½	5½	Clear	.....	4
19.5	—	12	16	3	31	+	1	25	7.5	17.5	17.4	67.3	NW.	7½	7½	Clear	.....	5
24.7	—	6	17	8	31	+	3	34	14	20	22.5	71.5	N.	4½	5	Clear	.....	6
26.5	—	16	26	4	46	+	6	35	7	28	24	70	NE.	2½	3	Fair	.....	7
36	—	4	12	....	16	+	8	40	26	14	33.5	74	NE.	4	4½	Cloudy	.....	8
46.7	—	2	14	....	16	+	12	51	36	15	44.8	84.7	E.	4½	4½	Cloudy	.....	9
48.7	—	1	11	19	31	—	9	64	39	25	48.3	95.3	S.	1½	2½	Rainy	.....	10
46	—	8	22	9	39	+	5	56	33	23	41.8	93.7	E.	2½	2½	Cloudy	.....	11
50.2	+	10	5	21	36	—	6	63	36	27	45.3	53.3	SE.	8	12½	Cloudy	.....	12
29.7	—	12	5	6	23	—	13	37	27	10	27.5	74.3	W.	11½	12	Fair	.....	13
28.7	—	2	5	2	9	+	1	32	25	7	25.5	60.7	NW.	7½	7½	Clear	.....	14
31	—	6	14	5	25	+	3	39	21.5	17.5	27.8	66.7	SE.	1½	2½	Fair	.....	15
36.5	—	0	18	18	36	0	51	30	30	21	37.3	62.3	NW.	8	9	Fair	.....	16
31.5	—	8	12	3	23	+	1	37	24	13	28.1	65.3	NW.	4	4	Clear	.....	17
40.7	—	1	12	..	13	+	11	45	30	15	37.3	68.7	S.	8	8½	Cloudy	.....	18
40.5	—	3	4	7	14	—	6	47	34	13	38	79.7	N.	4½	5	Cloudy	.....	19
35.5	—	11	12	1	24	0	40	27	27	13	33	74.7	E.	3½	3½	Clear	.....	20
38	—	4	10	7	21	—	1	45	34	11	35	73.7	NW.	5½	6½	Fair	.....	21
39.2	—	9	17	3	29	+	5	46	27	19	36.5	78.3	S.	3½	3½	Fair	.....	22
34.2	—	3	3	14	20	—	14	42	23	19	30.5	63.3	NW.	7	8½	Clear	.....	23
21.7	—	15	12	....	27	—	3	27	12	15	19.3	61.7	NW.	2	7½	Clear	.....	24
36.5	+	6	12	7	25	+	11	44	25	19	33	67.7	NW.	3½	3½	Cloudy	.....	25
37	—	8	12	....	20	+	4	41	27	14	36.5	71.7	E.	5	5½	Cloudy	.....	26
45.7	—	5	16	....	21	+	11	56	34	22	45	91.3	NE.	4½	5	Cloudy	.....	27
45	+	1	....	12	13	—	11	57	35	22	42.8	83.7	NW.	6	6½	Cloudy	.....	28
33.2	+ 17 — 169	325	168	679	+ 94 — 89	40.8	23.5	17.3	30.9	73.4		5.8	.....	3.95				

TABLE XI.—Showing daily mortality, divided under 19 heads,
MARCH, 1881.

Day of month.	Mortality.																		Meteorological conditions.						
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1.....	4	6	10							1		2	2		4		1	3	1	29.70	+ .11	.12	.03	.26	+ .20
2.....	4	4	8									1	2	1	3		2	2		29.91	0	.21		.21	+ .21
3.....	3	5	8									2	1				2	5		29.79	— .01		.26	.27	— .27
4.....	5	4	9	1			1		1			1	2	2			2	2	1	29.43	— .44	.27		.71	— .17
5.....	9	3	12									3	1	2	1	1	3	5	2	29.63	+ .06	.13	.04	.23	+ .15
6.....	6	5	11		1							3	1	2	1			4	1	29.91	+ .09	.25		.34	+ .34
7.....	5	4	9									2	3		1	1		5	1	30.15	+ .12	.02		.14	+ .14
8.....	4	13	17									7	5	2		1	3	7		30.04	0		.18	.18	— .18
9.....	3	3	6										2	1	1		2	2		29.60	— .28	.09	.20	.57	— .39
10.....	8	15	23			1						3	6	4	3		1	12	1	29.77	+ .09	.16		.25	+ .25
11.....	6	4	10	1	1							4	4	1	1	1	2	3		29.92	+ .10	.03	.05	.18	+ .08
12.....	10	7	17							1		4	6	2	1		4	6		29.79	+ .03		.25	.28	— .22
13.....	4	7	11	1	1					1	1	2	2	1	1		3	5		29.84	+ .12	.11	.04	.27	+ .19
14.....	12	6	18			1				1		3	2	3	2		5	6	1	30.22	+ .19	.24		.43	+ .43
15.....	5	4	9		1	1					1	3	1				4	2		30.33	+ .07		.10	.17	— .03
16.....	6	2	8									2	2	1			2	2		30.08	— .07		.21	.28	— .28
17.....	5	4	9									3		1			2	2		30.04	0	.07	.01	.08	+ .06
18.....	3	8	11	1						2		5	1	1			1	5		30.10	+ .05		.03	.08	+ .02
19.....	5	4	9	1								2	3	1			2	3		29.62	— .16		.46	.62	— .62
20.....	1	5	6									1	4				4	4		29.56	+ .04	.13	.02	.19	+ .15
21.....	9	6	15									4	4	2	2	1	2	6	2	29.69	+ .09	.06	.07	.22	+ .08
22.....	5	6	11									4	1	1			3	3	1	29.65	— .04	.07	.06	.17	— .03
23.....	5	7	12		1							3	3	1		1	3	4		29.70	+ .04	.05	.05	.14	+ .04
24.....	5	4	9						1			2	1	2		1	2	5	1	29.78	+ .07	.11	.07	.25	+ .11
25.....	7	4	11		1							4	1				3	6	2	29.84	+ .02	.07	.05	.14	+ .04
26.....	9	12	21		2		1					7	4	2	1	1	1	12	2	29.80	— .04	.04	.05	.13	— .05
27.....	7	8	15									5	3	2	1	1	2	4	1	29.81	+ .01	.05	.04	.10	+ .02
28.....	7	5	12						1			3	4				5	3	1	29.89	+ .10	.01	.06	.17	+ .05
29.....	9	3	12					1	1			4	1				3	4		29.70	— .02		.25	.27	— .27
30.....	3	6	9									1	1	2	1			5		29.21	— .44	.12	.03	.59	— .35
31.....	6	5	11									3	2	1			3	4		29.40	— .02	.28		.30	+ .26
Totals and means.	178	179	357	5	9	2	2	1	4	6	2	77	81	40	24	9	68	141	18	29.80	+1.40 —1.52	2.69	2.61	8.22	+2.82 —2.86

classified by color, different diseases, and ages, &c.—Continued.

MARCH, 1881.

Meteorological conditions.															
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
28.7	- 12	5	6	23	-13	35	27	8	25.8	64.3	W. 15	16	Fair.....	.....	1
34.2	- 1	15	6	22	+ 8	42	26	16	30	54.3	W. 8½	9	Clear.....	.....	2
33.5	- 7	10	4	21	- 1	39	26	13	32.8	89.3	NE. 4½	6½	Cloudy..	.81	3
32.5	+ 1	.....	5	6	- 4	36	29	7	30.8	82.7	W. 8	8½	Rain and snow.	.48	4
30	- 1	4	4	0	- 1	34	25	9	27	68.7	NW. 7	7	Cloudy..	.....	5
35.7	- 3	15	3	21	+ 9	42	25	17	32.3	65.3	NW. 6½	6½	Clear.....	(*)	6
39.5	- 3	10	6	19	+ 1	47	32	15	35.5	62.3	NW. 6½	6½	Clear.....	.....	7
42.2	- 9	23	10	42	+ 4	53	28.5	24.5	39.5	76.3	SE. 3	3½	Cloudy..	.14	8
41.2	- 3	4	1	8	0	45	38	7	39.8	88.3	NW. 16	18½	Rainy...	2.79	9
47	- 1	10	5	16	+ 4	55	40	15	41.6	59.7	NW. 12½	12½	Fair.....	.04	10
42	- 11	12	6	29	- 5	49	35	14	35	44	W. 6½	7	Fair.....	.....	11
36.7	- 8	5	2	15	- 5	40	34	6	33.8	65.7	NE. 4	4½	Cloudy..	.36	12
42.5	- 5	15	.....	20	+10	49	30	19	39.3	78.3	NW. 3	5½	Cloudy..	.....	13
41.2	- 7	3	2	12	- 6	46	38	8	36.8	60	NW. 9½	9½	Cloudy..	.....	14
44.2	- 7	19	8	34	+ 4	54	32	22	40.5	69.7	S. 2½	3	Fair.....	.....	15
52.5	- 5	20	5	30	+10	65	37	28	47.5	65.3	S. 3½	3½	Cloudy..	.....	16
42.7	- 11	1	4	16	-14	55	40	15	41.3	86.3	NE. 8½	8½	Cloudy..	.03	17
43.7	- 2	7	.....	0	+ 5	46	38	8	42.8	91.7	NE. 4	4	Cloudy..	.02	18
50	- 4	12	.....	16	+ 8	54	41	13	50	100	NE. 4½	4½	Rainy...	.64	19
46.5	- 9	6	6	21	- 9	53	41	12	43	75.7	NW. 1½	3½	Cloudy..	.04	20
43.2	- 6	11	8	25	- 3	51	37	14	37.3	51.3	W. 3½	3½	Clear.....	.....	21
39	- 8	10	5	23	- 3	45	33	12	34.3	59.7	W. 8	8½	Fair.....	.....	22
38.5	- 10	8	3	21	- 5	44	32.5	11.5	33	50	NW. 9	10	Fair.....	(*)	23
44.5	- 3	16	7	26	+ 6	52	33	19	37.8	47.7	NW. 5½	6	Clear.....	.....	24
48.2	- 4	17	11	32	+ 2	60	39	21	40.8	49.7	NW. 5½	5½	Fair.....	.....	25
36.5	- 15	8	3	26	-10	47	30	17	32.5	67	NW. 12½	12½	Snow and fair.	.14	26
40	- 4	10	1	15	+ 5	44	31	13	33.8	49.3	W. 14	14	Clear.....	.....	27
48.5	- 6	20	5	31	+ 9	58	33.5	24.5	40.3	41.7	W. 4½	4½	Clear.....	.....	28
44.7	- 10	11	0	30	- 8	52	39	13	40.3	62.3	NE. 6½	7½	Fair...	.....	29
33.5	- 4	.....	8	12	-12	40	31	9	32.8	92.7	NW. 5½	11½	Rain and snow.	1.11	30
37.2	+ 2	7	2	11	+ 7	42	30	12	33.8	66	W. 15½	15½	Snow and fair.	.01	31
40.7	+ 3 -179	314	145	641	+92 -99	47.5	33.3	14.2	36.8	67.3	N. W.	8.0	.....	6.61 .21	

TABLE XI.—Showing daily mortality, divided under 19 heads,
APRIL, 1881.

Day of month.	Mortality.																		Meteorological conditions.						
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1	5	7	12		1							5	2	2			3	2		29.64	+.05	.13		.18	+.18
2	7	7	14									2	3	2	1	1	5	3		30.02	+.24	.12		.36	+.36
3	6	5	11			1						2	1	3			2	5	2	29.96	+.02		.17	.19	-.15
4	7	7	14	2								3	3	2	1	1	3	4		29.76	-.13	.10	.10	.33	-.13
5	9	7	16		2				1			5	2	2	1		1	7	3	29.79	+.03	.07	.07	.17	+.03
6	1	9	10	1								1		4		1	2	2		29.86	-.02	.20	.04	.26	+.14
7	6	13	19		1	1				1		5	4	4			3	7	1	30.05	+.13	.01	.05	.19	+.09
8	3	3	6									3	1	2			1	1		29.90	-.05		.13	.18	-.18
9	8	7	15				1					3	2	3	3		3	5		29.91	+.06	.01	.02	.09	+.05
10	9	8	17						1			7	2	4			4	7	2	29.95	-.01	.11	.01	.13	+.09
11	7	8	15			1	1				1	2	1	2	2	1	3	3		30.06	+.10		.06	.16	+.04
12	7	6	13	1	1				1				1	3		1	1	7	3	29.79	-.21	.02	.06	.29	-.25
13	4	6	10		1			1				4	2	1			1	4		29.69	-.07	.12	.12	.31	-.07
14	5	5	10									1	4	3			2	6		29.71	+.08		.14	.22	-.06
15	10	9	19									6	2	1		2	3	6	1	29.66	+.03	.06	.08	.17	+.01
16	8	4	10									1	1	3	1		3	2		29.83	+.08	.15		.23	-.23
17	4	9	13	1		1						4	4	1			2	5		30.02	+.15	.01	.04	.20	+.12
18	8	4	12	1					1			2	3	1	1	1	2	4	1	29.97	-.05	.10	.07	.22	-.02
19	6	5	11	1								1	2	1		1	5	4		30.14	+.15		.03	.18	+.12
20	7	5	12	1	1	1						2	3				5	4		30.12	-.01	.05	.02	.08	+.02
21	5	3	8		1		1					2	2	1				5		30.13	+.04		.07	.11	-.03
22	5	4	9									3	2				2	3		30.13	+.03	.05	.04	.12	+.04
23	2	4	6		1							1					1	3		30.25	+.07	.04		.11	+.11
24	8	5	13			1	1	1	1	1		3	2				1	7	1	30.11	+.03		.27	.30	-.24
25	5	12	17									6	3	4			2	6	1	29.90	-.02		.14	.16	-.16
26	9	9	18			1			1			3	3	4			2	10	3	29.79	-.03	.05	.09	.17	-.07
27	8	5	13	2	1							2	2	1	2		3	3		29.92	+.14	.02	.03	.19	+.13
28	4	3	7				1					1	1	2			1	1		29.99	+.10		.05	.15	+.05
29	7	5	12	1					1	1		1	3	2	1		1	3		30.07	-.03	.20		.23	+.17
30	9	5	14							1		4	1	3	1	2	4	3		30.30	+.18	.06	.00	.30	+.18
Totals and means.	187	189	376	11	10	5	5	2	7	4	1	85	62	61	14	11	74	132	18	29.95	+1.71 -.63	1.68	1.96	5.98	+2.16 -1.36

TABLE XI.—Showing daily mortality, divided under 19 heads
MAY, 1881.

Day of month.	Mortality.																			Meteorological conditions.							
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrheal diseases, 5 years of age and over.	Diarrheal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.							
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.		
1.....	6	6	12						1			3	1	2	1	1	4	2		30.32	+	.18		.27	.45	—	.09
2.....	8	5	13			1			1			1	2	3			2	5	1	30.15	—	.11	.10	.03	.24	—	.04
3.....	6	4	10									4	2	2			2	2		30.36	+	.13	.06		.19	+	.19
4.....	5	6	11		1							4	2	2	1		2	6		30.41	+	.06		.04	.10	+	.02
5.....	1	3	4									1		2			2	2		30.27	—	.02		.17	.19	—	.19
6.....	4	4	8	2								4	1	1			1	1		30.03	—	.14	.05	.08	.27	—	.17
7.....	8	7	15	1	1				1			2	4	3	1		3	7		30.11	+	.09		.03	.12	+	.06
8.....	8	6	14		1	2						4		6			2	6		30.15	+	.09		.05	.14	+	.04
9.....	7	3	10									3	2	1	1	1	2	4		30.15	+	.06	.02	.08	.16		
10.....	7	6	13	1								2	1	3	1		4	4		30.14	+	.04	.04	.08	.16		
11.....	5	3	8						1			1	1	2			2	4		30.13	+	.07		.12	.19	—	.05
12.....	11	5	16	1	1		1					5	3	2			4	5		30.05	+	.04		.11	.15	—	.07
13.....	6	5	11	1								4	2	1			1	4		29.98	+	.01	.01	.07	.09	—	.05
14.....	5	5	10										3	1	2		2	6		29.90	+	.03		.16	.19	—	.13
15.....	2	4	6									4	1	1			2			29.65	—	.12		.11	.23	—	.23
16.....	5	4	9	2		1	1						1	1	2	1	2	2		29.76	+	.09	.10		.19	+	.19
17.....	4	1	5		1							1			1		1	2		29.87	—	.03	.15		.18	+	.12
18.....	6	3	9		2							1	1	1			2	5		29.92	+	.06		.11	.17	—	.05
19.....	4	5	9	1	1							1	3	1			3	3		29.85	—	.05	.05		.10		
20.....	8	4	12						1			1	1	2	1		3	3	2	29.96	+	.06	.06		.12	+	.12
21.....	6	2	8			2						1	1	4			2			30.05	+	.10	.01	.05	.16	+	.06
22.....	4	1	5				1					1		2			1	1		30.12	+	.08	.03	.04	.15	+	.07
23.....	3	3	6				1	1	1			2		1			1	3		30.21	+	.09	.04	.03	.16	+	.10
24.....	4	6	10	1	1	1						3	1	2			3	2		30.24	+	.04		.03	.09	—	.01
25.....	4	2	6		1							2		1	1	1	2	1		30.15	—	.06	.04	.05	.13	—	.05
26.....	6		6									1		1	1		2	1		30.19	+	.12		.12	.24		
27.....	3	7	10									4	1	3			2	3	1	30.01	—	.05		.14	.19	—	.19
28.....	4	3	7									3	1	2		1	1	1		29.91	—	.02		.06	.08	—	.08
29.....	7	1	8									3	1	1			3	2		29.91	+	.00	.02	.07	.15	+	.01
30.....	5	2	7									3	1		1		1	1		29.87	+	.01	.02	.06	.09	—	.03
31.....	3	3	6									1		1				4	4	29.84	+	.03	.01	.09	.13	—	.05
Totals and means.	165	119	284	10	10	8	4	1	5			70	37	55	14	5	60	94	12	30.05	+1.54 — .60	.81	2.25	5.20	+	.98 — 1.48	

classified by color, different diseases, and ages, &c.—Continued.

MAY, 1881.

Meteorological conditions.															
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rain fall in inches.	Day of month.
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
59.5	— 12	18	6	36	.....	68.3	43.5	24.8	52.8	56.7	SE. 4½	0	Clear	.....	1
65.4	+ 2.5	10.5	12	25	+ 1	76.8	57.5	19.3	62	78.3	SW. 3½	4½	Cloudy	.11	2
52.5	— 10	1	.....	11	— 9	61.8	49.1	12.7	49	77	N. 4	5	Cloudy	.10	3
56.7	— 2	13	8	23	+ 3	64.8	49.6	15.2	51.5	67.3	S. 2	3½	Cloudy	.....	4
58.5	— 5	14	6	25	+ 3	65.8	47.5	18.3	51.5	56.7	E. 7	7½	Fair	.....	5
60.9	— 5	9.5	0.5	15	+ 4	67	54	13	59.5	91	S. 1½	1½	Cloudy	.10	6
64.2	— 4	13	9	26	.....	74.8	53.1	21.7	57.5	65	SE. 1½	5	Clear	.....	7
64.7	— 7	17	8	32	+ 2	77.5	51.6	25.9	58.8	70.7	S. 4½	5	Clear	.....	8
71.2	— 4	79	8	31	+ 7	81.8	55.7	26.1	63.8	65	S. 4½	4½	Fair	.....	9
75.2	— 4	17	11	32	+ 2	86	63.3	22.7	67	63.7	S. 6½	6½	Clear	.....	10
79.5	— 4	20	11	35	+ 5	93.3	65	28.3	70.5	62	SW. 2½	3½	Clear	.....	11
82.2	— 6	19	10	35	+ 3	92.8	68.6	23.2	72.8	62	W. 4	4½	Fair	.....	12
84.5	— 3	16	13	32	.....	95.3	75.6	19.7	74	57.7	NW. 3½	4	Fair	(*)	13
72.2	— 11	11	14	36	— 14	83.2	66.1	17.1	67	71.7	E. 5	6½	Fair	(*)	14
76.2	— 3	11	6	20	+ 8	83.7	65.7	18	64.8	51.7	SW. 2	5	Fair	.13	15
62	— 13	4	8	25	— 17	70.8	57.3	13.5	55	62.7	NW. 6½	6½	Fair	.....	16
55.2	— 3	1	1	5	— 3	58.8	52.8	6	54	87.3	NW. 3½	3½	Cloudy	.20	17
54.5	— 4	6	4	14	— 2	58	50.8	7.2	53	87.7	N. 4½	5	Cloudy	.22	18
56.6	.....	4.5	1.5	6	+ 3	58.8	52.3	6.5	55.5	90.7	SW. 4½	4½	Rainy	.95	19
61	.....	8	4	12	+ 4	70.3	53.8	16.5	58	81	NW. 2½	3	Clear	.02	20
65.5	— 9	22	6	37	+ 7	77.8	51.2	26.6	60.8	75.7	SE. 3	3½	Fair	.....	21
60.2	— 7	9	.....	16	+ 2	80.2	60.1	20.1	64.5	76.7	S. 3½	3½	Fair	(*)	22
68.5	— 5	8	5	18	— 2	74.3	58.4	15.9	62	67.7	NE. 3½	3½	Clear	.....	23
66.2	— 7	9	3	19	— 1	73.2	55.5	17.7	60.8	72.7	NE. 5½	5½	Fair	.....	24
72	— 3	18	11	32	+ 4	82.6	55.3	27.3	63.3	60.7	NE. 4	5	Clear	.....	25
66.7	— 12	13	4	29	— 3	77.1	57.2	19.9	61.5	71.7	N. 2½	3	Clear	.....	26
72.2	— 8	24	11	43	+ 5	86.7	55.4	31.3	64.8	66.7	S. 2½	2½	Clear	.....	27
76.5	— 7	22	12	41	+ 3	80.7	60.6	20.1	66.5	57.3	S. 4½	4½	Clear	.....	28
77.6	— 5	16.5	11.5	33	.....	88.9	65.5	23.4	69.5	65	S. 5	5½	Clear	.....	29
79.7	— 2	13	8	23	+ 3	89.7	67.9	21.8	71	62.7	S. 2½	3	Clear	.....	30
77	— 5	16	18	39	— 7	92	69	23	69.5	64.7	S. 3½	4½	Fair	.03	31
67.9	+ 5.5 —167	403	230.5	806	+69 —58	77.2	57.7	19.5	61.7	69.3	3.8	4.4	.....	1.86	

TABLE XI.—Showing daily mortality, divided under 19 heads,
JUNE, 1881.

Day of month.	Mortality.																			Meteorological conditions.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhoeal diseases, 5 years of age and over.	Diarrhoeal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of the heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1.....	4	2	6									2	1				2			29.72	- .08		.09	.12	- .12
2.....	6	2	8		1							1	1	1			1	4		29.76	+ .08		.04	.12	+ .04
3.....	5	1	6									1	1	2			1	1		29.66	- .10	.04		.14	- .06
4.....	5	2	7	1								1	1	2			2	1		29.81	+ .04	.14		.18	+ .18
5.....	5	4	10	1	1							4	1	1			4	1		29.88	+ .07		.07	.14	
6.....	8	2	10						1		1	4	1	1			1	2		30.03	+ .08	.15		.23	+ .23
7.....	2	3	5		1								1	3			4			30.02	+ .06		.21	.27	- .15
8.....	6	9	15		1	1						4		3			2	6		29.80	- .07	.02	.10	.19	- .15
9.....	4	8	12	1	1	1						3		2			2	3	1	29.82		.07		.07	+ .07
10.....	8	8	11		1							3	1	1		2	3	2		30.00	+ .10	.07		.17	+ .17
11.....	8	1	9	1	1		1					5	1				2	1		30.08	+ .08	.06	.08	.22	+ .06
12.....	6	4	10		4					1			1	1	1		2	7		30.14	+ .10		.08	.18	+ .02
13.....	5	3	8		1								2	2			2	4		30.06	+ .03		.12	.15	- .09
14.....	5	3	8		1		1		1			1		2			2	2		29.93	- .10	.10	.05	.25	- .05
15.....	5	2	7		1							1		2		1	1	3		30.10	+ .09	.06		.15	+ .15
16.....	4	6	10		4							3						6	2	30.09	+ .09	.03	.11	.23	+ .01
17.....	6	5	11							1		2		1		1		6	2	29.77	- .24		.02	.26	- .26
18.....	5	9	14		2	1						3	1	2	1		2	9	1	29.89	+ .17		.07	.24	+ .10
19.....	5	3	8		2					1				1		1		3	1	29.82	- .07	.06	.01	.14	- .02
20.....	1	5	6		1							1		1	1		1	3		29.79	+ .06		.16	.22	- .10
21.....	3	2	5		1		1											2		29.83	+ .02	.11		.13	+ .13
22.....	7	7	14	2	8							1		1				9		29.95	+ .11	.01	.06	.18	+ .06
23.....	5	6	11		5	1							1	1				10		30.04	+ .05	.09		.14	+ .14
24.....	7	9	16		7							3					1	10		30.16	+ .10		.03	.13	+ .07
25.....	4	5	9		3	1	1		1					1			1	7		30.11			.06	.06	- .06
26.....	6	2	8	2								1					5			30.06	- .05	.04		.09	- .01
27.....	8	6	14		7							1		1	1		2	9	1	29.93	- .02		.19	.21	- .21
28.....	12	6	18	1	4			1				2		4			5	9		29.80	- .04		.05	.09	- .09
29.....	7	8	15		7							3		2		1	2	8		29.77	- .02	.02	.01	.05	- .01
30.....	8	12	20		10							5		3			1	14		29.86	+ .11	.03	.04	.18	+ .10
Totals and means.	166	145	311	9	75	5	4	1	3	3	1	55	17	34	6	7	47	146	8	8926.8	+1.44	1.10	1.65	4.93	+1.53
																				29.92	- .74				-1.38

classified by color, different diseases, and ages, &c.—Continued.

JUNE, 1881.

Meteorological conditions.															
Thermometrical.									Daily mean of wet bulb.	Daily mean percentage of humidity.	Resultant direction and force of wind per hour.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movements of thermometer for 24 hours.	Maximum temperature.	Minimum temperature.	Range of maximum and minimum temperature.							
74	— 3	15	12	30	.....	87.5	66.7	10	69.5	78	NW. 4	4½	Cloudy .	.09	1
61	— 8	.....	4	12	—12	71.8	59.2	12.6	61	96	NE. 7	7½	Rainy ..	.43	2
60	— 2	5	4	11	— 1	63.8	57.5	6.3	58.5	92	N. 4	4	Cloudy .	.13	3
60	— 4	7	.....	11	+ 3	67.8	54.3	13.5	58	88	N. 4½	4½	Cloudy .	.41	4
66	— 2	12	6	20	+ 4	73.6	55.2	18.4	60	67	W. 4	4	Cloudy .	.....	5
66	— 5	10	1	19	+ 1	71.8	58.8	13	61.2	73	NE. 1	2	Cloudy .	.02	6
65	— 6	6.5	.....	12.5	+ 0.5	70.4	59.8	10.6	62.5	83	E. 3½	3½	Cloudy .	.51	7
75	+ 1.5	18	15	34.5	+ 4.5	88.8	62	26.8	71	81	SE. 2	2½	Fair	(*)	8
63	— 5	.....	7	12	—12	71	58.6	12.4	62.1	97	NE. 7	7½	Rainy ..	.68	9
57	— 3	1	1	5	— 3	60.2	55.7	4.5	55.8	90	NW. 4½	4½	Cloudy .	.06	10
71	+ 4	17	6	27	+15	80.3	56.8	23.5	63.5	65	NW. 2	2½	Fair ....	.....	11
73	— 5	13	8	26	.....	81.7	59.6	22.1	66.2	67	E. 1	1	Clear ....	.....	12
68	— 6	8	7	21	— 5	77.8	62.4	15.4	64.2	77	E. 4	4½	Fair ....	.....	13
75	— 1	19	10	30	+ 8	86.7	64.6	22.1	65.8	64	W. 3½	6½	Fair ....	.....	14
75	— 3	11	10	24	— 2	84.7	67.3	17.4	64.5	58	NW. 6½	6½	Clear ....	.....	15
75	— 5	14	6	25	+ 3	84.6	61.3	23.3	66.8	60	SW. 2	2½	Fair ....	.....	16
78	— 7	14	2	23	+ 5	80.1	66.5	22.6	72.8	76	W. 3	3½	Fair	.48	17
78	— 9	13	8	30	— 4	89.1	67.7	21.4	69	60	NW. 3½	3½	Clear ....	.....	18
78	— 6	16	9	31	+ 1	88.8	68.5	20.3	71.8	70	SW. 2½	2	Fair	.01	19
76	— 3	14	18	35	— 7	89.8	68.7	21	71.5	75	S. 2½	4½	Cloudy .	.22	20
72	.....	6	7	13	— 1	78.8	66.6	12.1	63.3	58	NW. 6½	6½	Fair ....	.....	21
66	— 10	13	7	30	— 4	76	58.7	17.3	57.5	55	SE. 1	3½	Clear ....	.....	22
67	— 4	13	7	23	+ 1	76.8	54.5	22.3	60.5	64	E. 1	2	Fair	(*)	23
60	— 8	14	6	28	.....	75.8	55.2	20.6	58.3	57	N. 2½	2½	Fair ....	.....	24
71	— 1.5	11.5	7	20	+ 3	81	58.2	22.8	66.9	79	SE. 2½	3½	Cloudy .	.05	25
75	+ 1	11	8	20	+ 4	86.2	65.7	20.5	70	74	NE. 1	1½	Clear ....	.....	26
71	— 4	6	6	16	— 4	81.8	65.7	16.1	69.5	90	S. 4	5½	Cloudy .	2.59	27
82	+ 5	13	5	23	+13	93.5	70	23.5	73.5	87	SW. 4	5½	Clear ....	.....	28
81	— 3	9	11	23	— 5	93.3	72.2	21.1	73.2	66	SW. 3½	4½	Fair	.03	29
78	— 5	11	6	22	.....	87.7	69.2	18.5	69.2	53	NE. 1½	4	Fair ....	.....	30
2123	+ 11.5	320	207	657	+66	2408.4	1867.4	541	1957.7	2180	99½	123½	.....	5.71	
70.7	—118.5				—60	80.2	62.2	18	65.3	72.7	3.3	4.1			

Map pulled 1/1997

548 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE XII.—*Still-births, legitimacy, period of utero-gestation, by whom reported or attended, and cause of, year ending June 30, 1881.*

	White.		Colored.		Total.
	Male.	Female.	Male.	Female.	
Legitimacy:					
Legitimate	63	62	74	69	208
Illegitimate	8	8	50	29	95
Unknown color					7
Total	71	70	124	98	370
Period of utero-gestation:					
Fourth month	2	1	6	4	13
Fifth month	1	3	9	3	16
Sixth month	4	8	15	15	42
Seventh month	5	9	20	8	42
Eighth month	8	6	15	13	42
Ninth month	46	40	52	47	185
Unknown and not given	5	3	7	8	23
By whom reported:					
Physicians	52	53	45	33	183
Midwives	12	12	56	49	129
Coroner	7	5	23	16	51
Causes of:					
Unknown and not stated	33	41	78	63	215
Disease of mother	4	2	6	2	14
Overwork and injury to mother	4	4	18	17	43
Craniotomy	3	1		1	5
Protracted and difficult labor	12	3	2	2	19
Placenta prævia	4	1		1	6
Disease of foetus	3	2	1	1	7
Premature birth		4	10	2	16
Mal-presentation		2	1		3
Breech presentation	2	3			5
Shoulder presentation	1	1			2
Prolapsus funis	2	4	7	4	17
Puerperal convulsions				1	1
Neglect at birth			1	2	3
Contracted pelvis	2	1			3
Uterine hemorrhage		1		2	3
Cord around neck	1				1

NOTE.—The 7 of unknown color were reported by the coroner. The certificate in 1 case, male colored, give weight of foetus as 25 pounds.

TABLE XIII.—BIRTHS.—*Statement by months and quarters for the year ending June 30, 1881.*

Months and quarters.	White.		Colored.		Total white and colored.	Twins.		Bastards.	
	Male.	Female.	Male.	Female.		White.	Colored.	White.	Colored.
July, 1880	84	103	80	70	337	1	1	5	32
August, 1880	84	89	73	64	310	5	3	3	32
September, 1880	102	117	80	60	357	1	.....	2	26
Total first quarter	270	309	222	203	1, 004	7	4	10	90
October, 1880	100	76	74	65	215	.....	1	4	31
November, 1880	126	92	72	76	366	3	2	7	33
December, 1880	74	64	64	42	244	.....	.....	1	11
Total second quarter	300	232	210	183	925	3	3	12	75
January, 1881	102	89	79	83	353	1	2	4	26
February, 1881	85	56	50	63	254	.....	.....	2	26
March, 1881	86	76	72	72	306	1	2	13	34
Total third quarter	273	221	201	218	913	2	4	19	86
April, 1881	68	68	68	70	274	1	.....	4	19
May, 1881	82	75	57	49	263	.....	2	6	21
June, 1881	63	53	47	53	216	.....	1	2	16
Total fourth quarter	213	196	172	172	753	1	3	12	56
Total for the year	1, 056	958	805	776	3, 595	13	14	53	307

TABLE XIV.—BIRTHS.—*Nativities of parents of legitimate white children, reported, year ending June 30, 1881.*

Birthplaces of fathers.	Birthplaces of mothers.									
	United States.	British America.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	Poland.	France.	Switzerland.	Italy.	All other countries and unknown.
United States	1,379	5	39	21	18	.....	2	1	.....	.....
British America	5	.....	1	.....	.....	.....	.....	.....	.....	.....
Ireland	40	1	55	8	.....	.....	.....	.....	.....	1
England, Scotland, and Wales	38	.....	5	12	1	.....	.....	.....	.....	.....
Germany, Austria, and Holland	62	.....	18	2	75	.....	.....	.....	.....	.....
Poland .....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....
France	4	.....	1	.....	.....	.....	2	.....	.....	.....
Switzerland	1	.....	.....	.....	2	.....	.....	.....	.....	.....
Italy	8	.....	2	.....	1	.....	.....	.....	7	.....
All other countries and unknown	10	.....	1	.....	.....	.....	.....	.....	.....	8
Total	1,547	6	122	43	97	2	4	1	7	9
										1,838

TABLE XV.—BIRTHS.—*Number of births and twin-births, &c., reported, year ending June 30, 1881.*

Color.	Number of births.			Sex of twins.				By whom reported.			
	Males.	Females.	Total.	Males.	Females.	Male and female.	Total.	Physicians.	Midwives.	Unattended.	Total accouchements.
White	1,056	958	2,014	5	3	3	11	1,159	844	.....	2,003
Colored	805	776	1,581	4	4	5	13	508	1,260	.....	1,568
Total	1,861	1,734	3,595	9	7	8	24	1,467	2,104	.....	3,571

TABLE XVI.—BIRTHS.—Nationality of mothers, total number of children born to them, and average number for each, year ending June 30, 1881.

Nationality of mothers.	Number of children.																			Total number of mothers.	Total number of children born.	Average number of children borne by each mother.
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	19.	22.				
United States (white)	418	302	249	195	148	136	65	65	51	27	20	6	5	4	2	2	1	.....	1,696	6,276	3.68	
Ireland.	24	20	31	16	14	16	14	17	10	9	3	5	1	.....	.....	.....	.....	.....	1,180	907	5.04	
England, Scotland, and Wales.....	.....	7	2	.....	17	4	.....	1	.....	1	1	2	.....	.....	.....	.....	.....	.....	35	162	4.62	
Germany, Austria, and Holland	13	11	11	11	15	11	6	4	7	.....	.....	4	3	.....	.....	.....	.....	.....	96	462	4.81	
British America .....	.....	2	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	13	3.25	
All other countries and unknown	1	2	1	5	7	1	1	1	2	.....	.....	1	.....	.....	.....	.....	.....	.....	22	114	5.18	
Total white mothers	456	344	294	228	202	168	86	88	70	37	24	18	9	4	2	2	1	.....	2,033	7,934	3.90	
Total colored mothers.....	407	299	205	169	124	98	69	69	44	31	22	12	5	5	6	3	.....	1	1,569	5,905	3.76	
Grand total	863	643	499	397	326	266	155	157	114	68	46	30	14	9	8	5	1	1	3,602	13,839	3.84	

TABLE XVII.—BIRTHS.— *Nationality of mothers of illegitimate children (reported), year ending June 30, 1881.*

Nationality of mothers.	Number of children.										Total number of mothers.	Total number of children.
	1.	2.	3.	4.	5.	6.	7.	8.	9.	15.		
United States (white)	34	3	.....	.....	.....	.....	.....	.....	.....	.....	37	37
Ireland .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1
England	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Germany	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3
Colored mothers	156	*83	*27	*23	6	5	2	1	2	1	306	309
Total	194	87	27	23	6	5	2	1	2	1	348	351

* 1 pair of twins.

TABLE XVIII.—BIRTHS.—*Number of births (reported) in different hospitals, year ending June 30, 1881.*

Hospitals.	White.	Colored.	Total.
Columbia Hospital	57	65	122
Freedmen's Hospital	4	44	48
Washington Asylum Hospital	3	21	24
Saint Ann's Infant Asylum	9	.....	9
Government Insane Asylum	1	.....	1
Total	74	130	204

TABLE XIX.—MARRIAGES (REPORTED).—*Number of brides and grooms, year ending June 30, 1881.*

Number of marriages of grooms.	Number of marriages of brides.				Total.
	First marriage.	Second marriage.	Third marriage.	Not given.	
Whites:					
First marriage	396	25	.....	6	427
Second marriage	53	23	.....	2	78
Third marriage	2	2	1	.....	5
Fourth marriage	1	.....	.....	.....	1
Not given	4	.....	.....	46	50
Total	456	50	1	54	561
Colored:					
First marriage	166	27	1	.....	194
Second marriage	27	16	1	1	45
Third marriage	2	4	.....	.....	6
Fourth marriage	1	.....	.....	.....	1
Not given	1	.....	.....	4	5
Total	197	47	2	5	251

TABLE XX.—MARRIAGES (REPORTED).—*Nationality of brides and grooms of the white race, year ending June 30, 1881.*

Birthplaces of grooms.	Birthplaces of brides.						
	United States.	Ireland.	England, Scotland, and Wales.	Germany.	British America.	All other countries.	Not given.
United States.....	441	3	4	3	1	1	3
Ireland.....	6	5	.....	.....	.....	.....	.....
England, Scotland, and Wales.....	7	.....	.....	3	.....	1	.....
Germany.....	16	.....	.....	12	.....	.....	.....
British America.....	1	.....	.....	.....	.....	.....	.....
All other countries.....	8	.....	.....	.....	.....	1	.....
Not given.....	8	.....	.....	.....	.....	4	33
Total.....	487	8	4	18	1	7	36

TABLE XXI.—MARRIAGES (REPORTED).—*Ages of brides and grooms—whites—during the year ending June 30, 1881.*

Ages of grooms.	Ages of brides.								
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	Over 70 years.	Age not given.
Under 20 years.....	2	.....	.....	.....	.....	.....	.....	.....	.....
20 to 25 years.....	67	74	10	1	1	.....	.....	.....	1
25 to 30 years.....	41	68	31	6	1	.....	.....	.....	1
30 to 40 years.....	5	58	36	13	2	.....	.....	.....	.....
40 to 50 years.....	3	7	14	18	9	.....	.....	.....	.....
50 to 60 years.....	.....	.....	2	4	5	.....	.....	.....	.....
60 to 70 years.....	.....	.....	.....	6	2	.....	.....	.....	.....
Over 70 years.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Age not given.....	.....	.....	.....	.....	.....	.....	.....	.....	42
Total.....	118	237	93	49	20	.....	.....	.....	44

TABLE XXII.—MARRIAGES.—*Ages of brides and grooms—colored—reported during the year ending June 30, 1881.*

Ages of grooms.	Ages of brides.									
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	Over 70 years.	Age not given.	Total.
Under 20 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20 to 25 years.....	28	46	9	1	.....	.....	.....	.....	2	86
25 to 30 years.....	13	42	22	8	.....	.....	.....	.....	.....	83
30 to 40 years.....	2	19	9	11	3	1	.....	.....	.....	45
40 to 50 years.....	.....	1	.....	13	8	3	.....	.....	.....	25
50 to 60 years.....	.....	1	.....	5	1	.....	.....	.....	.....	7
Over 70 years.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2
Age not given.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3
Total.....	43	109	40	36	14	4	.....	.....	5	251

TABLE XXIII.—MARRIAGES.—*Number of marriages (reported) solemnized by clergymen of different denominations, year ending June 30, 1881.*

	Methodist.	Baptist.	Catholic.	Episcopalian.	Presbyterian.	Lutheran.	German Evangelical.	Congregational.	German Reformed.	Hebrew.	Unitarian.	Disciple.	Swedenborgian.	Unknown.	Total.
White.....	163	41	58	152	59	17	25	11	3	9	2	4	3	4	561
Colored.....	108	123	1	12	5	.....	.....	2	.....	.....	.....	.....	.....	.....	251
White and colored.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Total.....	271	165	59	164	74	17	25	13	3	9	2	4	3	4	813

TABLE XXIV.—Deaths from September 1, 1874, to June 30, 1881, inclusive, by ages and nativities.

Age, color, and sex.	District of Columbia.	New England.	Middle States.	West Virginia, Virginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.	Percentages to total deaths, by color and sex.	Total deaths, by color.	Mean annual death-rate, by color.	Total deaths by color, for the year ending June 30, 1881.	Annual death-rate by color, for the year ending June 30, 1881.
Under 5 years of age:															
White, male.....	2,697	5	31	86	37	1	1	1	3	2,862	37.20	5,551	7.290	698	5.75
White, female.....	2,528	5	29	88	38				1	2,689	38.54				
Colored, male.....	3,854	1	16	112	10					3,993	58.54	7,673	20.670	980	15.85
Colored, female.....	3,578	6	6	74	16					3,680	51.38				
5 to 10 years:															
White, male.....	237	2	19	80	23		2	1	2	316	4.11	642	.843	93	.775
White, female.....	261	5	11	36	8	1	1		3	326	4.67				
Colored, male.....	223	3	1	44	3					274	4.02	583	1.571	72	1.165
Colored, female.....	246	1	3	53	6					309	4.31				
10 to 20 years:															
White, male.....	178	7	26	58	21	13		4	2	309	4.02	625	.821	87	.717
White, female.....	195	4	23	63	17	8	2	4		316	4.53				
Colored, male.....	111		5	150	6				2	274	4.02	693	1.867	81	1.31
Colored, female.....	225	2	4	166	20				2	419	5.85				
20 to 30 years:															
White, male.....	231	19	71	107	45	39	9	29	16	566	7.36	1,207	1.585	183	1.50
White, female.....	279	18	65	157	41	50	8	15	8	641	9.19				
Colored, male.....	84	1	8	387	30				1	511	7.49	1,205	3.246	201	3.252
Colored, female.....	122	1	3	546	21				1	694	9.69				
30 to 40 years:															
White, male.....	163	33	123	119	63	139	32	74	21	767	9.96	1,428	1.862	233	1.92
White, female.....	176	21	78	177	38	108	14	33	16	661	9.47				
Colored, male.....	69	2	7	310	36				1	425	6.23	971	2.616	156	2.524
Colored, female.....	83	1	5	436	21					546	7.62				
40 to 50 years:															
White, male.....	115	51	120	138	57	173	33	120	32	839	10.90	1,378	1.810	240	1.979
White, female.....	104	24	53	142	26	111	17	52	10	539	7.73				
Colored, male.....	52	2	4	285	24				2	369	5.41	690	1.859	110	1.779
Colored, female.....	56		2	251	12					321	4.48				
50 to 60 years:															
White, male.....	79	42	89	134	33	153	33	105	28	696	9.04	1,205	1.583	206	1.698
White, female.....	78	22	53	167	20	107	17	36	9	509	7.30				
Colored, male.....	21	1	1	276	20		1			320	4.69	609	1.641	88	1.423
Colored, female.....	45			238	6					289	4.04				

TABLE XXIV.—Deaths from September 1, 1875, to June 30, 1881, inclusive, by ages and nativities—Continued.

Age, color, and sex.	District of Columbia.	New England.	Middle States.	West Virginia, Vir- ginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.	Percentages to total deaths, by color and sex.	Total deaths, by color.	Mean annual death- rate, by color.	Total deaths by color, for the year ending June 30, 1881.	Annual death-rate by color, for the year ending June 30, 1881.
60 to 70 years:															
White, male.....	58	51	111	169	25	133	32	74	28	676	8.78	1,189	1.562	217	1.788
White, female.....	78	32	55	175	16	96	20	86	5	513	7.35	515	1.387	68	1.10
Colored, male.....	16	1	.....	211	9	.....	.....	.....	1	238	3.49	.....	.....	.....	.....
Colored, female.....	32	.....	3	230	10	.....	.....	.....	2	277	3.87	.....	.....	.....	.....
70 to 80 years:															
White, male.....	33	46	62	158	16	79	25	43	18	475	6.17	979	1.286	174	1.434
White, female.....	71	22	64	190	13	66	22	44	12	504	7.22	.....	.....	.....	.....
Colored, male.....	20	.....	1	208	8	.....	.....	.....	.....	237	3.47	550	1.482	91	1.472
Colored, female.....	21	1	3	284	4	.....	.....	.....	.....	313	4.37	.....	.....	.....	.....
80 to 90 years:															
White, male.....	4	14	17	61	2	30	18	15	5	166	2.16	394	.518	61	.502
White, female.....	20	21	25	93	3	44	14	5	3	228	3.27	.....	.....	.....	.....
Colored, male.....	.....	.....	.....	132	6	.....	.....	.....	.....	138	2.02	333	.897	51	.825
Colored, female.....	21	.....	.....	168	5	.....	.....	.....	1	195	2.72	.....	.....	.....	.....
90 to 100 years:															
White, male.....	1	4	2	7	1	2	1	1	1	20	.26	66	.090	13	.010
White, female.....	2	1	3	23	.....	12	2	2	1	46	.66	.....	.....	.....	.....
Colored, male.....	3	.....	.....	28	.....	.....	.....	.....	1	32	.47	96	.237	20	.032
Colored, female.....	3	.....	.....	60	1	.....	.....	.....	.....	64	.90	.....	.....	.....	.....
100 years and over:															
White, male.....	1	.....	.....	.....	.....	2	.....	.....	.....	3	.04	8	.010	.....	.....
White, female.....	.....	.....	.....	.....	.....	5	.....	.....	.....	5	.07	.....	.....	.....	.....
Colored, male.....	1	.....	.....	9	.....	.....	.....	.....	.....	10	.15	65	.175	6	.09
Colored, female.....	1	.....	.....	54	.....	.....	.....	.....	.....	55	.77	.....	.....	.....	.....
Total white males.....	3,797	274	671	1,067	323	764	186	467	146	7,695	100.00	14,672	19.27	2,205	18.18
Total white females.....	3,792	175	459	1,311	220	608	117	227	68	6,977	100.00	13,983	37.67	1,931	31.25
Total colored males.....	4,454	11	43	2,152	152	.....	1	.....	8	6,821	100.00	.....	.....	.....	.....
Total colored females.....	4,433	12	29	2,560	122	.....	.....	.....	6	7,162	100.00	.....	.....	.....	.....

NOTE.—One death of female, color unknown, not in the above table.

TABLE XXV.—*Conjugal relations of decedents from September 1, 1874, to June 30, 1881.*

Social relation, color, and sex.	Ages in years.									Total.	Percentage of each to grand total of each.
	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 to 100.	100 and over.		
Married:											
White, male.....	129	398	542	478	436	261	54	8	0	2,306	54.80
female.....	350	454	342	257	158	60	11	15	0	1,647	45.17
Colored, male.....	140	252	273	239	171	154	64	17	4	1,314	57.63
female.....	328	377	173	134	88	45	23	0	0	1,168	42.41
Widowers and widows:											
White, male.....	6	25	68	84	144	162	98	9	3	599	14.23
female.....	20	77	140	211	294	375	182	27	5	1,331	36.53
Colored, male.....	12	37	25	45	42	65	67	14	6	313	13.73
female.....	29	79	117	131	156	247	164	64	52	1,039	37.73
Single:											
White, male.....	418	318	196	112	84	46	12	3	0	1,189	28.25
female.....	270	127	55	40	59	67	33	4	0	655	17.96
Colored, male.....	352	126	59	30	17	12	0	1	0	603	26.45
female.....	336	81	29	21	20	17	7	0	1	518	18.81
Unknown:											
White, male.....	13	26	33	22	12	6	2	0	0	114	2.71
female.....	1	3	2	1	2	2	2	0	0	13	.35
Colored, male.....	7	10	12	6	8	6	1	0	0	50	2.19
female.....	1	9	2	3	7	4	1	0	2	29	1.05
Grand totals:											
White, male.....	566	767	839	696	676	475	166	20	3	4,208	.....
female.....	641	661	539	509	513	504	228	46	5	3,646	.....
Colored, male.....	511	425	369	320	238	237	138	32	10	2,280	.....
female.....	694	546	321	289	277	313	195	64	55	2,754	.....

TABLE XXVI.—*Average ages of decedents and percentages to total mortality by ages from September 1, 1874, to June 30, 1881.*

Color and sex.	Total deaths.	Average ages.	Five years and over.			Twenty years and over.			Forty years and over.		
			Deaths.	Average ages.	Per cent. to total deaths.	Deaths.	Average ages.	Per cent. to total deaths.	Deaths.	Average ages.	Per cent. to total deaths.
White males	7,695	29.94	4,834	45.70	62.82	4,201	50.44	54.59	2,877	58.82	37.39
White females.....	6,977	29.77	4,287	45.21	61.46	3,647	51.06	52.27	2,345	62.49	33.61
Colored males	6,821	18.40	2,827	41.15	41.44	2,278	48.04	33.40	1,345	60.93	19.72
Colored females	7,162	21.01	3,481	41.08	48.60	2,753	47.64	38.44	1,513	64.66	21.12

TABLE XXVII.—DEATHS.—Deaths from principal diseases, by age, sex, color and nativity from September 1, 1874, to June 30, 1881.

Diseases, ages, color, and sex.	District of Columbia.	New England.	Middle States.	West Virginia, Virginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.
Tubercular, other than phthisis:										
5 years and over, white..... { male.....	30	...	8	8	7	10	5	7	1	82
female.....	29	3	9	18	7	7	2	1	4	80
5 years and over, colored..... { male.....	45	...	...	36	2	...	...	...	1	84
female.....	39	...	...	30	3	...	...	...	...	72
Diarrhœal diseases:										
10 years and over, white..... { male.....	17	9	16	32	12	32	6	15	5	144
female.....	32	3	9	47	4	23	6	6	2	132
10 years and over, colored..... { male.....	4	...	...	56	4	...	...	...	...	64
female.....	15	1	...	52	3	...	...	...	1	71
Typhoid fever:										
All ages, white..... { male.....	71	5	16	41	11	11	2	17	4	178
female.....	73	6	14	33	10	20	5	13	3	177
All ages, colored..... { male.....	48	1	5	64	2	...	...	...	...	118
female.....	41	1	...	57	4	...	...	...	1	104
Malarial fever:										
All ages, white..... { male.....	75	9	21	17	5	15	6	11	5	166
female.....	62	4	10	21	5	19	3	...	...	124
All ages, colored..... { male.....	82	...	2	53	1	...	...	...	...	138
female.....	82	...	...	56	1	...	...	...	...	139
Syphilis:										
All ages, white..... { male.....	14	1	3	2	2	5	...	...	...	27
female.....	15	...	...	3	1	1	...	...	1	21
All ages, colored..... { male.....	43	...	1	13	1	...	...	...	...	58
female.....	26	...	...	6	3	...	...	...	...	35
Alcoholism:										
All ages, white..... { male.....	15	1	5	11	3	29	3	10	2	79
female.....	2	...	...	6	...	7	...	1	4	20
All ages, colored..... { male.....	4	...	...	12	1	...	...	...	...	17
female.....	2	...	...	3	...	...	...	...	...	5
Apoplexy, paralysis, and softening of brain:										
All ages, white..... { male.....	45	31	67	99	16	54	25	30	19	392
female.....	32	18	34	97	8	45	11	23	5	273
All ages, colored..... { male.....	22	...	...	135	11	...	...	...	...	168
female.....	29	...	3	183	8	...	...	...	...	223
Sunstroke:										
All ages, white..... { male.....	5	1	2	2	1	5	...	5	1	22
female.....	2	1	...	...	...	2	...	2	...	7
All ages, colored..... { male.....	2	...	...	4	1	...	...	...	...	7
female.....	...	...	...	4	...	...	...	...	...	4
Acute diseases of the nervous system:										
10 years and over, white..... { male.....	18	12	14	29	9	16	9	8	2	117
female.....	26	3	14	21	3	9	3	3	1	83
10 years and over, colored..... { male.....	7	...	1	40	3	...	...	...	...	51
female.....	18	...	...	31	...	...	...	...	...	49
Insanity:										
All ages, white..... { male.....	13	28	43	15	30	61	11	60	15	276
female.....	13	3	9	16	4	8	3	8	1	65
All ages, colored..... { male.....	6	...	1	25	5	...	...	...	...	37
female.....	7	...	...	19	2	...	...	...	...	28
Rheumatism, including heart complications:										
All ages, white..... { male.....	21	4	11	14	1	11	2	9	1	74
female.....	25	2	4	19	2	6	1	3	...	62
All ages, colored..... { male.....	11	...	...	35	2	...	...	...	...	48
female.....	10	...	1	32	2	...	...	...	...	45
Diseases of the heart, its membranes and valves:										
All ages, white..... { male.....	62	19	39	59	14	44	6	24	7	274
female.....	52	15	33	67	4	30	5	17	5	228
All ages, colored..... { male.....	36	...	2	125	8	...	...	...	1	172
female.....	29	...	1	146	5	...	...	...	...	181
Aneurisms:										
All ages, white..... { male.....	3	3	5	4	1	4	2	5	1	28
female.....	1	...	...	...	...	...	...	...	...	1
All ages, colored..... { male.....	3	...	2	14	...	...	...	...	1	20
female.....	...	...	...	5	1	...	...	...	...	6
Angina pectoris:										
All ages, white..... { male.....	4	1	9	5	2	1	...	3	...	28
female.....	1	...	2	5	...	1	1	1	...	11
All ages, colored..... { male.....	...	...	...	4	1	...	...	...	...	5
female.....	...	...	...	7	...	...	...	...	...	7

TABLE XXIX.—DEATHS.—Deaths from phthisis pulmonalis, and total deaths from all causes, with percentages, from September 1, 1874, to June 30, 1881.

Ages.	White.						Colored.					
	Male.			Female.			Male.			Female.		
	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.
Under 5 years of age.....	36	3.05	2,862	1.26	38	3.39	211	19.23	3,693	5.28	241	16.27
5 to 10 years.....	11	.93	316	3.48	3	.27	50	4.56	274	18.25	70	4.73
10 to 20 years.....	51	4.33	309	16.50	99	8.83	100	9.12	274	36.50	223	15.06
20 to 30 years.....	302	25.61	566	53.36	339	30.24	277	25.25	511	54.21	414	27.95
30 to 40 years.....	311	26.38	767	40.55	270	24.09	186	16.96	425	43.76	235	15.87
40 to 50 years.....	234	19.85	839	27.89	161	14.36	120	10.94	369	32.52	147	9.93
50 to 60 years.....	123	10.43	696	17.67	100	8.92	91	8.29	320	28.44	69	4.66
60 to 70 years.....	82	6.96	676	12.13	73	6.51	36	3.28	238	15.13	42	2.84
70 to 80 years.....	26	2.21	475	5.47	32	2.86	19	1.73	237	8.02	30	2.02
80 years and over.....	3	.25	189	1.59	6	.53	7	.64	180	3.89	10	.67
Totals.....	1,179	100.00	7,695	15.32	1,121	100.00	1,097	100.00	6,821	16.08	1,481	100.00
Total deaths from phthisis, by color.....	2,300			2,578			2,578			2,578		
Mean annual death-rate from phthisis, } by color.....	3.02			6.94			6.94			6.94		
Total deaths from all causes, by color.....	14,672			13,983			13,983			13,983		
Mean annual death rate from all causes, } by color.....	19.27			37.67			37.67			37.67		
Percentage of deaths from phthisis to total deaths, by ages.....	9.55			22.65			22.65			22.65		
Total deaths from all causes.....	3,680			5,465			5,465			5,465		

TABLE XXX.—DEATHS.—Percentages of deaths of whites from phthisis pulmonalis to total deaths from all causes from September 1, 1874, to June 30, 1881.

Ages.	Nativities.											
	District of Columbia.	New England.	Middle States.	West Virginia, Virginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries and unknown.	Total for natives of the United States.	Total for natives of foreign countries.	Total.
Under 20 years of age.....	2.72	10.71	10.07	9.97	6.94	30.43	.....	10.00	9.09	3.38	20.46	3.49
20 to 30 years	57.45	48.64	47.79	51.13	55.81	55.05	35.29	34.99	50.00	54.11	47.12	53.10
30 to 40 years	41.00	42.59	40.29	44.59	39.60	40.08	41.30	32.71	35.13	41.87	37.98	40.61
40 to 50 years	36.07	32.00	23.69	34.28	27.71	27.11	30.00	18.60	19.04	31.68	24.08	28.66
50 to 60 years	19.74	14.06	10.56	18.93	16.98	22.69	18.00	20.56	13.51	16.87	20.90	18.50
60 to 70 years	15.44	10.84	7.22	15.69	9.75	15.28	15.38	9.09	7.14	12.98	13.12	13.03
70 to 80 years	4.80	5.88	4.76	6.60	6.89	6.89	6.38	2.29	12.00	5.92	5.92	5.92
80 years and over	3.57	.....	2.12	2.71	.....	2.10	.....	.....	.....	2.29	1.22	1.92
Percentages of deaths from phthisis to total deaths.....	9.68	20.04	20.79	22.62	25.04	24.63	19.80	17.86	20.58	14.34	21.91	15.67

564 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE XXXI.—DEATHS.—Percentages of deaths of colored from phthisis pulmonalis to total deaths from all causes from September 1, 1874, to June 30, 1881.

Ages.	Total.
Under 20 years of age	10.00
20 to 30 years	57.34
30 to 40 years	43.35
40 to 50 years	38.69
50 to 60 years	26.27
60 to 70 years	15.14
70 to 80 years	8.90
80 years and over	3.44
Percentage of deaths from phthisis to total deaths	18.43

TABLE XXXII.—Deaths from cancers by color, sex, and nativities from September 1, 1874, to June 30, 1881.

Cancer of—		Nativities.									Total.
		District of Columbia.	New England.	Middle States.	Maryland, Virginia, and West Virginia.	Other parts of United States.	Ireland.	England.	Germany.	Other foreign countries.	
Breast:											
White	{ male	10	3	3	15	5	8	1	2		47
	{ female										
Colored	{ male	3			15						18
	{ female										
Uterus:											
White	{ male	14	8	22	23	6	14	1	4	2	84
	{ female										
Colored	{ male	9			37	3					49
	{ female										
Ovary:											
White	{ male	4	1	1			2		1		9
	{ female										
Colored	{ male				2						2
	{ female										
Stomach:											
White	{ male	4	3	2	8		5	2	9	1	38
	{ female										
Colored	{ male	1		1	5			1	4	2	30
	{ female										
		4		1	13						6
											18
Liver:											
White	{ male	1	1	3	1		1	2	3	1	12
	{ female										
Colored	{ male				2						2
	{ female										
					2						2
Abdominal organs:											
White	{ male	4	1	2	3	2		2	2	1	7
	{ female										
Colored	{ male	1			4						4
	{ female										
					8						9
Face and head:											
White	{ male	4	1	3	6	2	3			1	20
	{ female										
Colored	{ male	1			1						2
	{ female										
					3						3
Mouth and its contents:											
White	{ male	4	1	1	3		1	1		1	12
	{ female										
Colored	{ male				1						1
	{ female										
					1						1
Rectum:											
White	{ male	1	1	1	1		1	1			5
	{ female										
Colored	{ male	4	1	2	1			1			10
	{ female										
					1						1
All others:											
White	{ male	3	1	3	4	1					12
	{ female										
Colored	{ male	1		1	5		2		1	1	13
	{ female										
					4						5
		1		1	6	1					9
Totals:											
White	{ male	16	9	10	26	3	14	4	13	6	101
	{ female										
Colored	{ male	50	20	36	60	16	34	7	18	6	247
	{ female										
					19						22
		18		2	58	4					112

TABLE XXXIII.—Deaths from cancers by color, sex, ages, &c., from September 1, 1874, to June 30, 1881.

Cancer of—	Under 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Breast							1		3	1			15		2		14			5
Uterus					3		2		20		12		27		11		21			11
Ovary									1		1		2				2			1
Stomach					1	2	2	1	2	1		1	5	5	2	1	14	6	1	3
Liver									2				1	5			3	1	1	
Abdominal organs		2			1	1	1	1	2	1	1	1	1	2	1	2	1	6	1	1
Face and head	1				1								8		1		3	5	1	2
Mouth and its contents	1		1						1				2	1			2			1
Rectum					1	3			1	2		1		1			1	2		
All others	3	1	1				1					2	4	2		5	2	4	1	
Totals	5	3	2		3	9	4	5	5	31	2	18	21	60	4	21	26	61	5	24

Cancer of—	60 to 70 years.				70 to 80 years.				80 years and over.				Totals.				Total.	Percentage to total deaths from cancers.
	W.		C.		W.		C.		W.		C.		W.		C.			
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Breast		9		5		6		3			1	2		47	2	18	67	13.90
Uterus		20		5		2		7		1		1		94		49	143	29.67
Ovary		4												9		2	11	2.28
Stomach	9	8	1	6	6	8		4	1			2	38	30	6	18	92	19.09
Liver	2	2			1	2	1	1				1	7	12	2	2	23	4.77
Abdominal organs	3	3		2	1			1				1	7	16	4	9	36	7.47
Face and head	2	1			3	2			2	5		1	20	13	2	3	38	7.88
Mouth and its contents	3				2	2			1				12	3	1	1	17	3.53
Rectum	1	2			1								5	10		1	16	3.32
All others	3	5		1		1	1	1			1		12	13	5	9	39	8.09
Totals.....	23	54	1	19	14	23	2	17	4	6	2	8	101	247	22	112	482	100.00

TABLE XXXIV.—*Number of deaths from cancers by color, sex, age; total number of deaths from all causes; number of deaths from all causes to 1 from cancer, and number of deaths from cancers to each 1,000 deaths from all causes from September 1, 1874, to June 30, 1881.*

Color and sex.	Under 20 years.				20 to 30 years.			
	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.
White males.....	5	3,487	697	1.4	3	566	189	5.3
White females.....	3	3,331	1,110	.9	9	641	71	14.0
Total white.....	8	6,818	852	1.2	12	1,207	101	9.9
Colored males.....	2	4,541	2,270	.4	4	511	103	7.8
Colored females.....	.....	4,408	.....	.....	5	694	139	7.2
Total colored.....	2	8,949	4,475	.2	9	1,205	134	7.6
Grand total.....	10	15,767	1,577	.6	21	2,412	115	8.7

Color and sex.	30 to 40 years.				40 to 50 years.			
	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.
White males.....	5	767	153	6.5	21	839	40	25.0
White females.....	31	661	21	46.9	60	539	9	111.3
Total white.....	36	1,428	40	25.2	81	1,378	17	58.8
Colored males.....	2	425	213	4.4	4	369	92	10.8
Colored females.....	18	546	30	33.0	21	321	15	65.4
Total colored.....	20	971	49	20.6	25	690	28	36.2
Grand total.....	56	2,399	43	23.3	106	2,068	20	51.3

TABLE XXXIV.—*Number of deaths from cancers by color, sex, age, &c.*—Continued.

Color and sex.	50 to 60 years.				60 to 70 years.			
	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.
White males	26	696	27	37.4	23	676	29	34.0
White females	61	509	8	119.8	54	513	9	105.2
Total white	87	1,205	14	72.2	77	1,189	15	64.8
Colored males	5	320	64	15.6	1	238	238	4.2
Colored females	24	289	12	83.0	19	277	15	68.6
Total colored	29	609	21	47.6	20	515	26	38.0
Grand total	116	1,814	16	63.9	97	1,704	18	56.9

Color and sex.	70 to 80 years.				80 years and over.			
	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.
White males	14	475	34	29.5	4	189	47	21.2
White females	23	504	22	45.6	6	279	46	21.5
Total white	37	979	26	37.8	10	468	47	21.4
Colored males	2	237	119	8.4	2	180	90	11.1
Colored females	17	313	18	54.3	8	314	80	25.5
Total colored	19	550	30	34.5	10	494	49	20.2
Grand total	56	1,529	27	36.5	20	962	48	20.8

TABLE XXXIV.—*Number of deaths from cancers by color, sex, age, &c.*—Continued.

Color and sex.	Total all ages.				Total 20 years and over.			
	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.	Deaths from cancers.	Total deaths from all causes.	Number of deaths from all causes to 1 from cancer.	Number of deaths from cancers to 1,000 from all causes.
White males.....	101	7, 695	7, 619	13. 1	96	4, 208	44	22. 8
White females.....	247	6, 977	28	35. 4	244	3, 646	15	69. 7
Total white.....	348	14, 672	42	23. 7	340	7, 854	23	43. 3
Colored males.....	22	6, 821	310	3. 2	20	2, 280	114	8. 8
Colored females.....	112	7, 162	64	15. 6	112	2, 754	25	40. 7
Total colored.....	134	13, 983	104	9. 6	132	5, 034	38	26. 2
Grand total.....	482	28, 655	59	16. 8	472	12, 888	27	36. 6

TABLE XXXV.—Average ages, in years, of decedents from cancers.

Cancer of—	White.							
	Males.				Females.			
	Married.	Widowers.	Single.	Total.	Married.	Widows.	Single.	Total.
Breast					48	59	60.3	54
Uterus					46.2	57	50	49
Ovary					51.4	65		54.3
Stomach	57	64.7	56.6	57.7	55	68	49.5	58.8
Liver	55.6	69	57	58	44	59	61.5	52
Abdominal organs	60	52	40	55	49	60.5	38	48
Face and head	59.4	75.4	34	54.3	67	71.5	79	70.5
Mouth and its contents	60.4	65	30	56	62	74		66
Rectum	46		71	50.4	39	69	30	39
All others	53	48	18	43.8	54.3	62	43	55.6
All cancers	55.8	66.7	40.6	54.5	48.5	61.8	49.3	52.2

Cancer of—	Colored.							
	Males.				Females.			
	Married.	Widowers.	Single.	Total.	Married.	Widows.	Single.	
Breast		91	31	61	50	67.8		61.8
Uterus					45	57.5	34	50.3
Ovary					35	59		47
Stomach	41.5			41.5	49	68	50	61.6
Liver	63.5			63.5		83	70	76.5
Abdominal organs	40.5	54	28	40.8	45	70	60	55
Face and head	54		42	48	50	83	50	61
Mouth and its contents			19	19	55			55
Rectum					33			33
All others	73		18	51	39.5	44	68	48.4
All cancers	52	72.5	26	47	45.3	62.6	50	53.8

TABLE XXXVI.—Deaths from cancers, by ages, &c., from September 1, 1874, to June 30, 1881.

Ages.	White.				Colored.			
	Male.		Female.		Male.		Female.	
	Deaths from cancers.	Percentage to total deaths of white males from cancers.	Deaths from cancers.	Percentage to total deaths of white females from cancers.	Deaths from cancers.	Percentage to total deaths of colored males from cancers.	Deaths from cancers.	Percentage to total deaths of colored females from cancers.
Under 20 years of age.....	5	4.9	3	1.2	2	9.1	.....	.....
20 to 30 years	3	2.9	9	3.6	4	18.2	5	4.5
30 to 40 years	5	4.9	31	12.5	2	9.1	18	16.1
40 to 50 years	21	20.8	60	24.3	4	18.2	21	18.7
50 to 60 years	26	25.8	61	24.7	5	22.7	24	21.4
60 to 70 years	23	22.8	54	21.9	1	4.5	19	16.9
70 to 80 years	14	13.9	23	9.4	2	9.1	17	15.2
80 and over	4	4.0	6	2.4	2	9.1	8	7.2
Total	101	100	247	100	22	100	112	100
Percentage to total deaths from all causes by sex ...	1.31	.....	3.54	.....	.32	.....	1.56	.....
Percentage to total deaths from all causes by color..	2.37				.96			
Mean annual death-rate....	0.457				0.361			

TABLE XXXVII.—Deaths from cancers among white females from September 1, 1874, to June 30, 1881.

Cancer of—	Married.		Widows.		Single.		Total deaths from cancers.	Percentage to total deaths from cancers.
	Deaths from cancers.	Percentage to total deaths from cancers of married.	Deaths from cancers.	Percentage to total deaths from cancers of widows.	Deaths from cancers.	Percentage to total deaths from cancers of single.		
Breast	23	16.3	13	18.3	11	35.5	47	19.3
Uterus	66	46.8	23	32.4	4	12.9	93	38.2
Ovary	7	4.9	2	2.8	.....	.....	9	3.7
Stomach	12	8.6	11	15.5	7	22.6	30	12.4
Liver	6	4.3	4	5.6	2	6.5	12	4.9
Abdominal organs	7	4.9	4	5.6	3	9.7	14	5.8
Face and head	5	3.6	7	9.9	1	3.2	13	5.3
Mouth and its contents	2	1.4	1	1.4	.....	.....	3	1.3
Rectum	7	4.9	1	1.4	2	6.4	10	4.2
All others	6	4.3	5	7.1	1	3.2	12	4.9
Totals	141	100	71	100	31	100	243	100
Percentage to total number of married, of widows, and of single, dying of all diseases and 20 years and over of age .....	.....	8.56	.....	5.33	.....	4.73	.....	6.66

NOTE.—One case cancer of uterus 46 years of age, conjugal relation not given, and 3 cases (2 of "abdominal organs" and 1 of "all others") under 20 years of age, not included in this table.

TABLE XXXVIII.—Deaths from cancers among colored females from September 1, 1874, to June 30, 1881.

Cancer of—	Married.		Widows.		Single.		Total deaths from cancers.	Percentage to total deaths from cancers.
	Deaths from cancers.	Percentage to total deaths from cancers of married.	Deaths from cancers.	Percentage to total deaths from cancers of widows.	Deaths from cancers.	Percentage to total deaths from cancers of single.		
Breast	6	13.6	12	21.05	.....	.....	18	16.4
Uterus	21	47.7	24	42.10	3	33.4	48	43.7
Ovary	1	2.3	1	1.75	.....	.....	2	1.8
Stomach	4	9.1	12	21.05	2	22.2	18	16.3
Liver .....	.....	.....	1	1.75	1	11.1	2	1.8
Abdominal organs	5	11.3	3	5.3	1	11.1	9	8.2
Face and head	1	2.3	1	1.75	1	11.1	3	2.7
Mouth and its contents	1	2.3	.....	.....	.....	.....	1	.9
Rectum	1	2.3	.....	.....	.....	.....	1	.9
All others	4	9.1	3	5.3	1	11.1	8	7.3
Totals	44	100	57	100	9	100	110	100
Percentage to total number of married, of widows, and of single, dying of all diseases, and 20 years and over of age .....	.....	3.77	.....	5.49	.....	1.74	.....	3.99

NOTE.—One case cancer of uterus, age 41, and 1 case of "all others," age 75, conjugal relations not given, are not included in this table.

ADDITIONS TO THE LIBRARY.

The following-named works, reports, and papers have been added to our library during the year:

Dr. H. F. Parsons' Report to the Local Government Board on the Sanitary Condition of the Stonebridge Registration District and on the Late Prevalence of Scarlet Fever therein.

Dr. Parsons' Report to the Local Government Board on the Prevalence of Scarlet Fever and "Fever" in the Llanelly Urban Sanitary District.

Dr. H. F. Parsons' Report to the Local Government Board on the Prevalence of Enteric Fever in the Pontardame Rural Sanitary District, and on the General Sanitary Condition of the District.

Annual Report of the Supervising Surgeon-General of the Marine Hospital Service of the United States, 1880.

Tenth Annual Report of the City Registrar of Marriages, Births, and Deaths in the City of Albany, 1880.

Walsh's Retrospect for 1880.

Popular Science Monthly, 1881.

The Sanitarian, 1881.

Hygienic and Medical Reports by Medical Officers of the United States Army.

Annual Report of the Treasurer of the United States, 1880.

Annual Report of the Health Officer of the City and County of San Francisco, 1880.

First Annual Report of New York Sanitary Reform Society, 1880.

Annual Address of Ed. Fenner *et al.*, at Regular Meeting New Orleans Auxiliary Sanitary Association, 1880.

Remarks by C. B. White, M. D., Sanitary Director, upon "Disinfection."

Annual Report of the Board of Health of the City of Pittsburgh for the year 1879.

First Annual Report of the State Board of Health of South Carolina for the year ending October 31, 1880, and first half year ending October 31, 1879.

Commissioners' Report District of Columbia, 1879.

Mr. W. H. Powers' Report to the Local Government Board on Diphtheria, at the Hospital for Sick Children, Great Ormond street.

Dr. Ballard's Report to the Local Government Board upon an Epidemic Outbreak of Enteric Fever in the Village of Millbrook in the Rural Sanitary District of St. Germaris, Cornwall.

The Indiana Medical Reporter, November, 1880.

Tenth Annual Report of the Board of Directors of Children's Hospital, 1881.

Third Annual Report of the Board of Health of the City of Augusta, Ga.

- Third Annual Report of the State Board of Health for year ending November 30, 1880.
 Report of Analysis of Ohio River Water.
 Annual Report of the Health Officer of the City of Burlington, Vt., 1881.
 Annual Reports of the State Board of Health of Colorado, 1879 and 1880.
 Second Annual Report of the Board of Health of the Taxing District of Shelby County, Tennessee, 1880.
 Code of Sanitary Ordinances of the Board of Health of the City of Brooklyn, 1879.
 Statutes and Ordinances Governing the Health Department of Baltimore.
 Digest of Statutes and Ordinances Relating to the Public Health, 1873.
 House of Representatives, Document 199, Report on the Adulteration of Food.
 Fifth Annual Report of the Board of Health, City of Utica, N. Y., 1881.
 Annual Report of the Board of Health of City of Sacramento, Cal., 1881.
 Report of the Board of Health to the Citizens of Bridgewater, March, 1881.
 The Journal of Materia Medica, 1881.
 Report on Trichinæ and Trichinosis, 1881, Ex. Doc. No. 9, 46th Congress.
 Fifth Report of the Board of Trustees of Public Schools of the District of Columbia, 1878 and 1879.
 Dr. Ballard's Report on an Acute Specific Disease, Characterized by a Peculiar Diarrhœa, Epidemic Among Persons who had Partaken of Refreshments Provided at a Sale on the Duke of Portland's Estate, at Welbeck, Notts.
 Dr. Ballard's Report to the Local Government Board on an Epidemic of Enteric Fever at Newlyn, in the Rural Sanitary District of St. Columb, Cornwall.
 Mr. John Spears' Report to the Local Government Board on the Sanitary Condition of Shadwell, in the Rural Sanitary District of Weatherby, Yorkshire.
 Dr. Airy's Report to the Local Government Board on Several Outbreaks of Diphtheria in the Fourth Quarter of 1879.
 Fourteenth Annual Report of the Board of Health, Dayton, Ohio, 1881.
 Eighth Annual Report of the Board of Health, 1880.
 Annual Report of the Board of Health and of the Vital Statistics of Lowell, Mass., 1880.
 Annual Report of the Board of Health, Charleston, S. C., 1881.
 Fourth Annual Report of the Board of Health of the State of New Jersey, 1880.
 Report of the Department of Health of the City of Chicago, 1879, 1880.
 Ninth Annual Report of the Local Government Board 1879, 1880, and Supplement containing Report of the Medical Officer for 1879.
 Third Annual Report of the Board of Health of the City of Somerville, Mass.
 Sixth Annual Report of the Health Officer of Hamilton, Ohio, 1881.
 The Hygiene of Emigrant Ships, by Thomas J. Turner, A. M., M. D., Ph. D., 1880.
 Report of the Committee on the Prevention of Venereal Diseases, American Public Health Association, 1880.
 Report of the Health Department, Toledo, Ohio, 1880.
 Fourteenth Annual Report of the Health Department, Cincinnati, Ohio, 1880.
 Eighth Annual Report of the Board of Health of the City of Boston, 1879, 1880.
 Statistical Tables of Births, Marriages, Deaths, &c., in Japan, Tokio, 1881.
 Third Annual Report of the State Board of Health of the State of Rhode Island, 1880.
 Report of Twenty Years' Experience in the Department of Physical Education and Hygiene in Amherst College, 1881.
 Annual Reports of City Officers of Aurora, Ill., 1881.
 Annual Report of the Board of Health, City of Cleveland, 1880.
 Report of the Board of Health of the State of Louisiana for 1880.
 First Annual Report of the State Board of Health of New York, 1881.
 Report of State Board of Health of New York on the Nuisances of Hunter's Point and Vicinity, 1881.
 Annual Report of the Board of Health of the City of Indianapolis, 1880.
 Third Annual Report of the Central Sanitary Bureau of the Home Department of Japan, 1881.
 United States Commission on Fish and Fisheries Reports for 1873, 1874, 1875, 1876, 1877, and 1878. 4 vols.
 Tenth Annual Report of the Local Government Board, London, England.
 Annual Report of the Board of Health of Richmond, Va.
 Transactions of the Medical Association of the State of Alabama, 1881.
 First Annual Report of the State Board of Health of New York, 1881.
 Eleventh Annual Report of the City Registrar of Marriages, Births, and Deaths in the City of Albany, 1881.
 Annual Report of the City Registrar, 1881, Boston.
 Health Officers' Annual Report, Philadelphia, 1880.
 Annual Report of the Health Department of the City and County of San Francisco, 1881, 1882.
 Thirty-ninth Registration Report, Boston, Mass., 1880.
 Second Annual Report of the State Board of Health, Lunacy, and Charity of Massachusetts, 1880.
 Supplement containing Report and Papers on Public Health.

LIST OF REGISTERED PHYSICIANS.

Name.	Residence.	Name.	Residence.
Adams, E. A	422 8th st., s. e.	Carpenter, J. E	104 C st., n. e.
Adams, A. C	709 11th st., n. w.	Custis, J. B. G	604 East Capitol st.
Adams, J. Lee	1335 E st., s. e.	Caldwell, C. T	1732 10th st., n. w.
Adams, B. B	1616 7th st., n. w.	Clum, A. H. W	1431 S st., n. w.
Adams, Samuel S	831 14th st., n. w.	Cook, G. Wythe	1502 S st., n. w.
Adams, M. P	1602 8th st., n. w.	Crook, Harrison	424 7th st., s. w.
Appleby, J. F. R	63 Market st., George- town.	Colesberry, W. H	723 14th st., n. w.
Atwood, O. W	1928 12th st., n. w.	Corey, Waterman F	906 French st., n. w.
Allen, Charles	415 7th st., s. w.	Cook, Samuel L. C	1537 K st., n. w.
Augusta, A. T	1319 L st., n. w.	Chew, Thomas J	1210 31st st., n. w.
Ashford, F. A	1330 New York av., n. w.	Coues, Elliott	1619 K st., n. w.
Abert, Charles	515 10th st., n. w.	Candee, H. O	423 9th st., n. w.
Acker, George N	1403 New York av., n. w.	Cate, W. M	904 14th st., n. w.
Antisell, Thomas	1311 Q st., n. w.	Cardozo, J. L	411 L st., n. w.
Antisell, Thomas, jr.	1311 Q st., n. w.	Chesley, James B	C bet. 4½ & 6th sts., n. w.
Armstrong, William J	1629 Conn. av., n. w.	Duhamel, W. J. C	338 Indiana av., n. w.
Bliss, D. W	1329 F st., n. w.	Dorsey, T. Graham	400 B st., s. e.
Bogan, S. W	421 G st., n. w.	Dorsey, Lloyd	1022 9th st., n. w.
Brackett, John E	31 B st., s. e.	Dexter, J. E	453 C st., n. w.
Bond, Samuel S	813 1st st., n. w.	Darling, Henry	Brightwood.
Blair, David	1618 14th st., n. w.	DeMeza, M. M	427 9th st., n. w.
Borrows, Joseph	921 E st., n. w.	Dailey, O. A	1302 R st., n. w.
Behrend, A	709 H st., n. w.	Dovilliers, L. V	1221 13th st., n. w.
Beall, B. M	941 R. I. av., n. w.	Dobson, H. A	420 3d st., s. e.
Bruckheimer, M	240 4½ st., s. w.	Donohue, Florence	1134 8th st., n. w.
Bushnell, J. H	923 10th st., n. w.	Dyrenforth, R. G	1418 U st., n. w.
Boorman, C. V	1114 Md. av., s. w.	Duval, W. T. S	1119 10th st., n. w.
Bowen, Charles H	601 Mass. av., n. w.	Dooley, F. X	301 Pa. av., s. e.
Baxter, J. H	1504 H st., n. w.	Dyer, John I	15th bet. K & L sts., n. w.
Baldwin, W. O	1915 Pa. av., n. w.	Duncan, E. A	230 1st st. n. e.
Bray, John	5th st., between H and I, n. e.	Dufour, J. F. R	1814 14th st., n. w.
Beale, J. S	206 Pa. av., s. e.	Deeble, H. M	87 West st., George- town.
Barnes, J. D	2136 Pa. av., n. w.	Dixon, William S	18th and K sts., n. w.
Barker, H. H	1019 F st., n. w.	De Witt, Calvin	Soldiers' Home.
Bulkley, J. W	805 12th st., n. w.	Eaton, P. H	1318 T st., n. w.
Briscoe, W. C	317 C st., n. w.	Eliot, Johnson	510 E st., n. w.
Busey, S. C	1525 I st., n. w.	Eliot, J. Llewellyn	Washington Asylum.
Baxter, J. B. G	706 H st., n. e.	Evans, Warwick	1027 9th st., n. w.
Bird, James C	1325 F st., n. w.	Edson, Susan A	1308 I st., n. w.
Bogue, A. P	Bureau of Education.	Eversfield, W. O	1529 14th st., n. w.
Bogan, M. V. B	604 Mass. av., n. w.	Ellzey, M. G	926 New York av.,
Bigelow, J. R	931 G st., n. w.	Fisher, Samuel B	321 East Capitol st.
Bailache, P. H	1316 R st., n. w.	Franzoni, C. W	808 H st., n. w.
Boldemann, Theodore	822 8th st., n. w.	Fenwick, G. P	405 7th st., s. w.
Byrnes, J. C	1410 6th st., n. w.	Fisher, G. W	Uniontown.
Ball, Charles A	233 G st., n. w.	Ford, C. M	150 Pa. av., s. e.
Burghardt, Caroline A	938 H st., n. w.	French, R. D. De L	1336 T st., n. w.
Byrns, William F	217 Delaware av., n. e.	Foster, R. A	24 I st., n. e.
Bettes, Eugene	517 20th st., n. w.	Foster, Frank J	2321 I st., n. w.
Bayne, John W	328 East Capitol st.	Fry, Henry D	819 14th st., n. w.
Bigelow, Horatio R	1502 14th st., n. w.	Francis, John D	2112 Pa. av.
Bassett, Simpson	615 A st., n. e.	Freeman, J. R	1207 G st., n. w.
Balloch, Edward A	7th st. road, county.	Ferry, L. A	1313 Corcoran st., n. w.
Budd, Samuel W	1321 F st., n. w.	Foster, George W	Insane Asylum.
Binna, Douglass	1014 F st., n. w.	Friedrich, Leon L	323 East Capitol st.
Baldwins, L. B	U. S. Naval Hospital.	Fisher, John C	1421 G st., n. w.
Boyd, J. C	U. S. Naval Hospital.	Gleeson, J. K. P	1227 N st., n. w.
Burnett, Swan M	1215 I st., n. w.	Gibbs, Thomas F	935 Rhode Isl'd av., n. w.
Beckwith, S. B	1405 I st., n. w.	Groot, S. I	924 New York av., n. w.
Blackwell, Thomas S	921 G st., n. w.	Glennan, P	Cor. New Jersey av. and Boundary.
Beatty, Louis K	511 East Capitol st.	Garnett, A. Y. P	1317 New York av., n. w.
Bransford, J. F	U. S. Naval Hospital.	Grinsted, William	637 9th st., n. e.
Baker, Frank	326 C st., n. w.	Gross, George	311 East Capitol st.
Callan, C. V. N	1422 F st., n. w.	Griffith, M. J	1401 5th st., n. w.
Carroll, Joseph	912 M st., n. w.	Griffith, Samuel H	Naval Dispensary.
Christie, Arthur	615 Pa. av., s. e.	Gilpin, George E	Tennallytown.
Crew, S. B	146 6th st., s. w.	Godding, W. W	Insane Asylum.
Cragin, Charles H	124 Dunbarton st., Georgetown.	Geiseking, H. N	615 Louisiana av., n. w.
Calvert, Edward H	62 Defrees st., n. w.	Gerretson, Frederick	425 9th st., n. w.
Crouse, J. L	1146 8th st., n. w.	Graham, N. F	Pension Office.
Cox, Christopher C	Brightwood.	Goodman, William R	216 13½ st., s. w.
Cowling, William W	1304 9th st., n. w.	Gilbert, Charles B	1118 New York av., n. w.
Croumbe, John T	603 Louisiana av., n. w.	Gihon, Albert L	1736 I st., n. w.
Corbin, E. L	1812 I st., n. w.	Gibson, J. R	Washington Barracks.
Craig, B. F	611 H st., n. w.	Gooldrick, P	1115 G st., n. w.
Cull, Abner H	Insane Asylum.	Goldaborough, E. K	1331 K st., n. w.
Chase, Robert H	76 Bridge st., George- town.	Hagner, Daniel R	1814 H st., n. w.
Connell, B. F		Harris, J. D	7th and Boundary, n. w.
		Harris, J. O	929 L st., n. w.
		Herbert, J. Wells	205 H st., n. w.

LIST OF REGISTERED PHYSICIANS—Continued.

Name.	Residence.	Name.	Residence.
Herbert, J. William	Marine Barracks.	Morgan, J. E.	905 E st., n. w.
Hazen, D. H.	407 6th st., s. w.	Morgan, E. C.	916 E st., n. w.
Hazen, W. P. C.	511 East Capitol st.	Magruder, G. L.	310 E st., n. w.
Hammett, C. M.	644 F st., s. w.	Mundell, John H.	1022 18th st., n. w.
Hartigan, J. F.	1125 14th st., n. w.	Melvin, M. B.	721 4½ st., s. w.
Henderson, George	1908 H st., n. w.	Mauss, R. G.	1701 6th st., n. w.
Huntoon, A. J.	Third Auditor's Office.	Meriam, E. C.	622 N. J. av., n. w.
Howard, Joseph T.	1126 9th st., n. w.	Marmion, W. V.	1106 F st., n. w.
Howard, F.	1019 F st., n. w.	Muncaster, O. M.	1405 N. Y. av., n. w.
Howard, H. N.	918 Mass. av., n. w.	McWilliams, A.	607 4½ st., s. w.
Heneberger, L. G.	Naval Hospital.	Murphy, P. J.	Columbia Hospital.
Holton, Adelaide T.	519 13th st., n. w.	Mackall Louis, jr.	71 Dunbarton street
Hagner, Charles E.	944 L st., n. w.		Georgetown.
Hyatt, Franck	1224 I st., n. w.	Mackall, J. McV.	612 14th st., n. w.
Hansmann, Theodore	724 13th st., n. w.	McBlair, J. H.	2029 I st., n. w.
Hatch, Horace	1323 F st., n. w.	Mason, John Edwin.	220 I st., n. w.
Hood, T. B.	1009 O st., n. w.	McLaughlin, Thomas N. .	1310 F st., n. w.
Herndon, D.	1441 Corcoran st., n. w.	Maxwell, Charles D.	1716 I st., n. w.
Hoover, C. A.	1222 6th st., n. w.	Marr, S. S.	1415 10th st., n. w.
Herron, Charles S.	626 10th st., n. e.	McLeod, Wilfred	Corner Frederick and
Houston, Samuel	1417 Columbia st., n. w.		Prospect sts.; George-
Hillyer, Frances S.	Room 34, P. O. Dept.		town.
Hadfield, George	1333 F st., n. w.	Menke, John R.	601 4th st., n. w.
Henry, William S. B.	941 H st., n. w.	Morrell, W. H.	Insane Asylum.
Hartwell, J. B.	1303 S st., n. w.	McPherson, D. M.	711 8th st., n. w.
Heller, P. H.	213 6th st., n. w.	Marsteller, A. A.	219 D st., n. w.
Herron, George H.	1328 6th st., n. w.	Massey, Thomas E.	2423 Pa. av., n. w.
Harrison, J. S.	1911 I st., n. w.	McLean, John W.	1306 R st., n. w.
Heath, W. H.	1421 G st., n. w.	McArdle, Thomas E.	707 12th st., n. w.
Hoff, L. B.	1509 H st., n. w.	Minnich, William H.	1500 7th st., n. w.
Hoehling, Adolph A.	1253 Corcoran st.	Mitchell, George H.	1312 F st., n. w.
Hassler, F. A.	917 E st., n. w.	McClurg, Walter A.	U. S. Naval Hospital.
Hart, Mary E.	939 H st., n. w.	Mallan, Thomas F.	Providence Hospital.
Hamilton, John B.	1421 G st., n. w.	Mann, W. A.	1003 K st., n. w.
Hoffman, W. J.	222 E st., n. w.	Mayfield, Clifton.	Columbia Hospital.
Harrison, George B.	1345 F st., n. w.	McVay, Stephen A.	526 7th st., s. w.
Holden, R. T.	632 4½ st., s. w.	Maddox, W. R.	Georgetown.
Hawkes, W. H.	1105 F st., n. w.	Mosher, James.	115 B st., s. e.
Johnson, A. E.	101 B st., s. e.	Muhleman, S. H.	723 6th st., n. w.
Johnson, Dallas.	825 New Jersey av., n. w.	Norton, C. A.	805 H st., n. e.
Johnson, H. S. E.	227 B st., s. w.	Newton, Lewis E.	413 L st., n. w.
Johnson, J. Tabor.	937 New York av., n. w.	Naylor, William L.	456 M st., n. w.
Johnston, W. W.	H and 14th sts., n. w.	Newman, W. G. H.	2403 Pa. av., n. w.
Johnson, J. B.	922 New York av., n. w.	Newman, H. M.	Do.
Julihn, M. L.	1212 I st., n. w.	Nicholson, William.	1322 I st., n. w.
Johnston, G. F.	420 E st., n. w.	Norris, Basil.	1829 G st., n. w.
Jackson, W. W.	920 F st., n. w.	Neale, Richard A.	1252 7th st., n. w.
Jones, H.	462 Louisiana av., n. w.	Nourse, jr., Charles H.	Cor. Mass. av. and 10th
Joyce, J. W.	912 I st., n. w.		st., n. w.
Jolley, J. B.	512 E st., n. w.	Okie, W. T.	1210 G st., n. w.
Jenkins, F. T.	2115 Pa. av., n. w.	Owens, Thomas.	1107 18th st., n. w.
Keech, Thomas A. R.	645 Pa. av., s. e.	O'Conner, Frank J.	802 6th st., s. w.
King, A. F. A.	726 13th st., n. w.	Patterson, D. C. (coroner)	919 I st., n. w.
Kleinschmidt, C. H. A.	3113 N st., n. w.	Porter, H. T.	17 Bridge st., George-
Kelly, Daniel J.	2628 K st., n. w.		town.
Kidder, J. H.	Smithsonian Institut'n	Palmer, W. G.	929 H st., n. w.
Ketcham, O. C.	37 C st., n. e.	Palmer, G. S.	1113 Mass. av., n. w.
Kellogg, George	1416 Q st., n. w.	Purvis, C. B.	Freedmen's Hospital.
King, Charles.	817 5th st., n. w.	Pope, G. W.	1334 I st., n. w.
King, George S.	52 H st., n. e.	Parsons, Mary A.	724 11th st., n. w.
Lamb, D. S.	1324 V st., n. w.	Parsons, John.	1512 9th st., n. w.
Landers, Thomas	Pension Office.	Parsons, M. S.	618 6th st., n. w.
Leach, H. E.	233 7th st., s. w.	Prentiss, D. W.	1224 9th st., n. w.
Lee, George	1303 H st., n. w.	Prentiss, C. E.	212 6th st., s. e.
Lincoln, N. S.	1514 H st., n. w.	Peter, Armstead.	3112 O st., n. w.
Little, J. W.	Anacostia.	Poulton, W. E.	426 4½ st., s. w.
Lee, William.	2111 Pa. av., n. w.	Patze, A.	311 Pa. av., n. w.
Lieberman, C. H.	722 12th st., n. w.	Pearson, C.	608 12th st., n. w.
Lovejoy, J. W. H.	900 12th st., n. w.	Parkinson, C.	1003 O st., n. w.
Lowver, W. P.	1912 I st., n. w.	Penrod, Hiram J.	1635 Conn. av., n. w.
Lindsly, Harvey	824 Conn. av., n. w.	Pittis, William.	1441 T st., n. w.
Little, J. J.	1511 R st., n. w.	Porter, H. C.	3145 P st., n. w.
Loomis, L. C.	P. O. box 307.	Parker, J. M.	Oxen Hill, Md.
Loguen, Sarah M.	2002 17th st., n. w.	Parker, C. F.	1011 7th st., n. w.
Latimer, George	1604 7th st., n. w.	Pook, B. G.	Barnes Hospital.
Le Conte, John N.	907 T st., n. w.	Purman, J. J.	1435 Chapin st., n. w.
Long, Owen M.	1446 N st., n. w.	Richings, H.	608 14th st., n. w.
Lovering, Phillips A.	Naval Hospital.	Rains, C. H.	1427 Corcoran st., n. w.
Lyon, Samuel B.	Insane Asylum.	Rauterberg, Charles.	215 3d st., n. w.
Mallam, C. E.	920 9th st., n. w.	Rauterberg, L. E.	Do.
Mead, Theodore	902 22d st., n. w.	Reyburn, Robert.	2129 F st., n. w.
Moore, J. B.	1924 Pa. av., n. w.	Reily, James R.	221 4½ st., s. w.
McKim, S. A. H.	25 5th st., s. e.	Reinhardt, Julius F. A.	527 8th st., s. e.

LIST OF REGISTERED PHYSICIANS—Continued.

Name.	Residence.	Name.	Residence.
Ritchie, Louis W.....	3259 N st., n. w.	Thompson, J. Ford.....	1000 9th st., n. w.
Roberts, W. E.....	715 G st., s. e.	Thomp-on, jr., J. Harry..	1324 Mass. av., n. w.
Radcliffe, S. J.....	1211 F st., n. w.	Turner, Thomas J.....	1227 M st., n. w.
Russell, W. R.....	1424 L st., n. w.	Tarkington, J. A.....	217 D st., n. w.
Raines, Webster M.....	1318 G st., n. w.	Torrey, Turner.....	Anacostia.
Reynolds, W. B.....	U. S. Naval Hospital.	Taylor, William H.....	619 M st., n. w.
Ravenberg, R.....	1457 Pierce Place, n. w.	Toner, J. M.....	615 La. av., n. w.
Rosse, Irving C.....	1106 F st., n. w.	Triplett, W. H.....	
Reid, Louis H.....	506 K st., n. w.	Tyler, W. Bowie.....	2918 P st., n. w.
Rogers, A. P.....	301 L st., s. e.	Tyler, Grafton.....	1300 30th st., n. w.
Roberts, Grace.....	204 5th st., s. e.	Tyler, A. C.....	125 Maryland av., n. e.
Rico, Nathan E.....	1529 14th st., n. w.	Taylor, L. M.....	701 M st., n. w.
Rixey, P. M.....	1518 K st., n. w.	Taulman, D. D.....	6th and G sts., n. w.
Ramsey, W. T.....	1327 Q st., n. w.	Trott, Thomas H.....	232 N. J. av., s. e.
Russell, H. A.....	924 P st., n. w.	Tebbs, A. Sydney.....	3322 M st., n. w.
Ross, V. A. Sebiakin.....	423 9th st., n. w.	Townsend, W. W.....	1901 Vt. av., n. w.
Reyburn, Robert, jr.....	2129 F st., n. w.	Trist, H. B.....	815 14th st., n. w.
Spackman, Mary D.....	1634 16th st., n. w.	Verdi, T. S.....	1413 P st., n. w.
Stanton, J. O.....	1344 G st., n. w.	Van Arnum, J. W.....	1031 8th st., n. w.
Stone, C. G.....	Brightwood.	Vowless, D. W.....	721 15th st., n. w.
Sumby, S. A.....	513 3d st., s. w.	Van Vliet, F. C.....	819 15th st., n. w.
Suddarth, J. L.....	2 I st., n. e.	Walsh, Jno. K.....	1111 13th st., n. w.
Stearns, S. S.....	924 P st., n. w.	Walsh, F. S.....	430 1st st., n. e.
Sothoron, James T.....	1919 I st., n. w.	Woodbury, H. E.....	912 12th st., n. w.
Samson, George C.....	2419 Pa. av., n. w.	Ward, W. W.....	723 18th st.
Sonnenschmidt, C. W.....	626 E st., n. w.	Walter, J.....	1010 F st., n. w.
Street, D. B.....	61 H st., n. w.	Williamson, A. N.....	486 F st., s. w.
Sowers, Z. T.....	1324 N. Y. av., n. w.	Winter, Jno. T.....	1613 10th st., n. w.
Shekell, A. B.....	1529 32d st., n. w.	Watts, S. R.....	1018 19th st., n. w.
Smith, Thomas C.....	1133 12th st., n. w.	Winslow, Caroline B.....	1 Grant Place.
Scholl, Joseph.....	615 D st., n. w.	Walsh, Ralph S. L.....	326 C st., n. w.
Sweetman, J. T.....	1008 26th st., n. w.	Wolhaupter, D. P.....	801 H st., n. w.
Sturgis, P. M.....	2 Congress st., George-town.	Waggaman, S. I.....	477 Pa. av., n. w.
Stephenson, Joseph G.....	1007 F st., s. w.	Wales, Philip S.....	813 Vt. av., n. w.
St. Clair, F. O.....	1428 R. I. av., n. w.	Wells, Charles A.....	Bladensburg, Md.
Schaeffer, E. M.....	1115 F st., n. w.	West, George William.....	1102 14th st., n. w.
Sellhausen, E. A.....	636 G st., n. w.	Wooley, G. W.....	708 9th st., n. e.
Stratton, Jno. T.....	517 7th st., s. e.	Witmer, A. H.....	Insane Asylum.
Stevens, W. H.....	1311 H st., n. w.	Wallace, M. T.....	351 Pa. av., n. w.
Suter, Henderson.....	1209 31st st.	Walker, Mary E.....	Hillman House.
Stack, M. J.....	Insane Asylum.	Ward, E. J.....	801 9th st., n. w.
Shirley, jr., C. B.....	1336 Q st., n. w.	White, James M.....	Brightwood.
Shadd, Furman J.....	Freedmen's Hospital.	Warman, W. H. H.....	939 F st., n. w.
Stout, Alexander M.....	1137 24th st., n. w.	Young, Parke G.....	1258 8th st., n. w.
Swormstedt, L. B.....	1455 14th st., n. w.	Young, Noble.....	344 Pa. av., n. w.
Shoulters, George H.....	1116 10th st., n. w.	Young, James T.....	1336 N. Y. av., n. w.
Townshend, Smith, health officer.	213 4½ st., n. w.	Yarrow, H. C.....	920 14th st., n. w.
		Yarnall, J. H.....	Children's Hospital.

LIST OF REGISTERED UNDERTAKERS.

Barker, R. W.....	612 11th st., n. w.	Kickham, William.....	3327 O st., Georgetown.
Bettors, George C. H.....	1408 South Carolina av.	Lee's, Henry, Sons.....	332 Penn. av., n. w.
Berry, George.....	471 School st., s. w.	Lewis, William.....	1650 Vermont av., n. w.
Beckett, William.....	920 E st., s. w.	Mitchell, John M.....	914 11th st., s. e.
Birch, Joseph F.....	3043 M st., n. w.	McHenry, J. P.....	Mt. Olivet Cemetery.
Brown, W. P. & Son.....	Cor. 9th and E. sts., s. e.	McKerichar, Alex.....	Glenwood Cemetery.
Boteler, E. M.....	735 8th st., s. e.	Nelson & Dabney.....	441 L st., n. w.
Bond, Thomas.....	Uniontown.	Parker & Scott.....	1108 Connecticut av.
Bergdorf, Aug.....	312 Penn. av., n. w.	Randall & Jenifer.....	632 4½ st., s. w.
Buchly, William S.....	912 Penn. av., n. w.	Shelton, John H.....	Methodist Cemetery.
Clements, James T.....	1235 32d st., n. w.	Cross, J. B.....	Congressional Cemetery.
Cohen, Moses.....	8th st., bet. H and I sts.		
Clark & Brother.....	1735 K st., n. w.	Smith, Norburn.....	1723 Cedar st., n. w.
Day Addison.....	301 4½ st., s. w.	Sigourney, W. S.....	2824 Penn. ave., n. w.
Davis, James H.....	1626 11th st., n. w.	Speare, W. R.....	940 F st., n. w.
Fries, Mrs. D.....	1008 6th st., n. w.	Spindler, Fred.....	1233 7th st., n. w.
Gawler, Joseph.....	1726 Penn. av., n. w.	Spindler, William F.....	1029 7th st., n. w.
Geier, Frank.....	1113 7th st., n. w.	Tibbs, Moses.....	Cor. 12th and R. I. ave.
Gasch Francis.....	Bladensburg, Md.	Travers, D. T.....	812 3d st., s. w.
Harvey, R. F., agent.....	921 7th st., n. w.	Wetzel, John A.....	1317 32d st., n. w.
Hough J. E.....	319½ Penn. av., Balti-more, Md.	West, John.....	1113 Q st., n. w.
Jett, John W.....	2900 M. st., n. w.	Williams, Lemuel.....	1705 Penn. av., n. w.
Johnson, Isaac.....	812 3d st., s. w.	Wright, John R.....	1337 10th st., n. w.
Jordon, H. & Son.....	1910 8th st., n. w.	Waddy, Warner.....	Potomac City. County,
Joy, Charles H. & Co.....	19th and K st., n. w.	Young, R. D.....	641 Massachusetts av.
		Zurhorst, George P.....	320 Penn. av., s. e.

LIST OF REGISTERED PLUMBERS.

Name.	Residence.	Name.	Residence.
Anderson, James F	304 B st., s. e.	Lockhead, James	1414 Pa. av., n. w.
Artz, Samuel	488 Louisiana ave., n. w.	McAvoy, John M	1829 H st., n. w.
Atchison, J. J	1316 14th st., n. w.	McAvoy, George F	710 14th st., n. w.
Anadale, John A	1236 9th st., n. w.	McCarthy, J. J	1251 32d st., n. w.
Barnard, Edward	Cor. 18th and H sts., n. w.	McMahon, John J	2008 I st., n. w.
Bryan, James F	419 9th st., n. w.	Moran, John	2126 Pa. av., n. w.
Brill & Hayden	308 Penn. av., n. w.	Miller, George H	506 9th st., n. w.
Bond, R	133 Penn. av., n. w.	Mitchell, John	820 14th st., n. w.
Brooks, E. F	531 15th st., n. w.	Moss, James W	408½ N. J. av., n. w.
Brooks, R. C	622 D st., n. w.	Nolan, James	1411 F st., n. w.
Bride, C. T.	306 Penn. av., s. e.	O'Brien, M. J	306 4½ st., n. w.
Beuter, Max A	6 D st., n. w.	O'Donnoghue, Joseph	98 Bridge st., n. w.
Cantwell, John		O'Hare, Edward	2118 Pa. av., n. w.
Caverly, Edward & Co	1425 N. Y. av., n. w.	O'Hagan, James	1917 Pa. av., n. w.
Campbell, R. G	517 10th st., n. w.	Power, John A	424 9th st., n. w.
Connor, James A	1335 9th st., n. w.	Pettit & Dripps	Cor. 14th & B sts., n. w.
Cruit & Scott	810 9th st., n. w.	Quinter, Joseph R., jr	1323 Vt. av., n. w.
Dougherty, W. W	1340 I st., n. w.	Ragan, James	135 F st., n. w.
Daly, John	703 9th st., n. w.	Ridgeway, E. A	1428 F st., n. w.
Driscoll, H		Rothwell, W	113 B st., s. e.
Eckhoff, Christian F	812 North Capitol st.	Reach, Robert	1742 14th st., n. w.
Erich, C. A		Rapley, W. H	1315 E st., n. w.
Fitzhugh, J. B	306 East Capitol st.	Suman, James L	713 D st., n. w.
Fritz, T	117 7th st., n. w.	Sherwood, S. H	1113 Park st., n. e.
Fitzgerald, Robert	22 G st., n. w.	Spearing, S. J	450 Pa. av., n. w.
Goodall, George W	425 12th st., n. w.	Smithson, C. F	478 G st., s. w.
Gorman, Edward	807 14th st., n. w.	Shedd, Samuel S	409 9th st., n. w.
Hayward & Hutchinson	317 9th st., n. w.	Thorn, Charles G	1220 F st., n. w.
Hutchins, George E	632 H st., n. w.	Thorn, H. C	725 13th st., n. w.
Harrover, James R	1406 14th st., n. w.	Thomas & Albinson	1103 7th st., n. w.
Horan, James F	102 M st., s. e.	Talty, James	1017 I st., n. w.
Harrison, James T	603 Penn. av., s. e.	Tennant, Alexander	3063 M st., n. w.
Hannan, Edward J	517 11th st., n. w.	Umhau, C. F	1800 7th st., n. w.
Hannan, Daniel	517 F st., n. w.	Waters, S. M	1213 32d st., n. w.
Hannan & Co	717 M st., n. w.	Work, W. J	528 8th st., n. e.
Hill, R. A., & Son	2230 13th st., n. w.	Wilkerson, J. H	220 7th st., s. e.
Hilbeary, T. W	434 11th st., n. w.	Winter, H. E.	832 Del. av., n. e.
Jenks, W. S., & Co	717 7th st., n. w.	Ward & Cunningham	414 11th st., n. w.
King, F. A	1329 7th st., n. w.	Williamson, Donald S	923 Mass. av., n. w.
Lansdale, E. G	2134 Pa. av., n. w.		

All of which is respectfully submitted.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX Z 1.

DISTRICT OF COLUMBIA, HEALTH DEPARTMENT,
Washington, September 29, 1881.

GENTLEMEN: Referring to your letter of the 15th ultimo, I have the honor to present herewith estimate of appropriations required to defray the expenses of conducting the sanitary service, prevent the sale of unwholesome food, secure a full and correct record of vital statistics, and prevent domestic animals from running at large in the District of Columbia during the fiscal year ending June 30, 1883:

For salary of health officer	\$3,000
For six sanitary inspectors, at \$1,200 each	7,200
For two food inspectors, at \$1,200 each	2,400
For clerks	7,000
For salary of poundmaster	1,200
For salary of inspector of marine products	1,200
For salary of messenger	600
For contingent expenses, including books, stationery, fuel, rent, and miscellaneous items	4,000

As the inspector of plumbing was last year appropriated for in the inspector of buildings' office, I have not included the salary of that officer in these estimates. He being employed under direction of the health officer, however, I have asked for a small advance on the sum for contingent expenses, in order to be enabled to provide books, blanks, permits, office furniture, stationery, &c., for him.

The salary of the inspector of marine products was last year placed at \$1,000. This was done, I think, without proper consideration. The duties of that officer are onerous, and of much importance. There should be no distinction between salaries of inspectors; and I have asked that \$1,200 be allowed him in common with the others.

In addition to this, I would recommend that \$1,000 be asked of Congress, to be used in abating nuisances on public property, such as accumulations of rank weeds, filth, *débris*, &c. A fund for this purpose is much needed at certain seasons of the year.

Very respectfully, &c.,

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

a—REPORT OF THE UNITED STATES INSPECTOR OF GAS
AND METERS FOR THE FISCAL YEAR ENDING JUNE 30,
1881.

OFFICE U. S. INSPECTOR OF GAS AND METERS,
Washington, D. C., September 5, 1881.

GENTLEMEN: I have the honor herewith to submit copy of the annual report of this office, showing its operations for the fiscal year ending June 30, 1881.

Very respectfully, your obedient servant,

S. CALVERT FORD,
Inspector of Gas and Meters.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

ILLUMINATING POWER AND PURITY.

The illuminating power and purity of the gas supplied by the Washington Gas Light Company from July 1, 1880, to June 30, 1881, are as follows:

Average illuminating power during the year	candles..	16.72
Highest illuminating power during the year	do....	19.20
Lowest illuminating power during the year	do....	14.80
Average quantity of ammonia in 100 cubic feet during the year	grain..	.97
Highest quantity of ammonia in 100 cubic feet during the year	grains..	3.52
Lowest quantity of ammonia in 100 cubic feet during the year	grain..	.03
Average quantity of sulphur in 100 cubic feet during the year	grains..	9.73
Highest quantity of sulphur in 100 cubic feet during the year	do....	26.03
Lowest quantity of sulphur in 100 cubic feet during the year	do....	3.42

The quality of the gas supplied by the Washington Gas Light Company during the past year has been uniformly good, and in accordance with the requirements of the act of Congress regulating gas works in this District.

Complaints have fallen off considerably regarding poor light, and

stoppages produced mainly from the presence of naphthaline in the service pipes, have become much less frequent.

The gas contained but a small quantity of sulphur (an impurity which no method yet devised in a commercial way, has enabled engineers to free gas from entirely).

The quantity of ammonia present was slight, and on two occasions the gas was absolutely free from it.

This impurity is now utilized, forming the base of ammonia sulphate, a salt which is extensively employed in alum making, and is the starting point of the preparation of chloride of ammonium, carbonate of ammonia, liquid ammonia, and other similar products.

On eleven occasions during the past year the gas supplied by the Washington Gas Light Company was of less illuminating power than sixteen candles, as follows :

	Candles.
December 13.....	15.92
December 17.....	15.85
December 20.....	15.97
December 27.....	15.14
January 3.....	15.84
February 16.....	15.99
February 24.....	15.42
April 6.....	15.42
May 12.....	14.80
June 8.....	15.35
June 18.....	15.70

On three occasions the gas of this company contained a slight excess of sulphur, over the 20 grains allowed in each 100 cubic feet: March 2, 20.89 grains; April 5, 20.20 grains, April 22, 26.03 grains.

The illuminating power and purity of the gas supplied by the Georgetown Gas Light Company from July 1, 1880, to June 30, 1881, are as follows :

Average illuminating power during the year.....	candles..	17.06
Highest illuminating power during the year.....	do....	20.81
Lowest illuminating power during the year.....	do....	10.55
Average quantity of ammonia in 100 cubic feet during the year.....	grains..	2.45
Highest quantity of ammonia in 100 cubic feet during the year.....	do....	9.09
Lowest quantity of ammonia in 100 cubic feet during the year.....	grain..	.46
Average quantity of sulphur in 100 cubic feet during the year.....	grains..	13.27
Highest quantity of sulphur in 100 cubic feet during the year.....	do....	34.11
Lowest quantity of sulphur in 100 cubic feet during the year.....	do....	6.23

The quality of the gas supplied by the Georgetown Gas Light Company during the first half of the fiscal year, with a few exceptions, was very high and quite free from impurities.

On several occasions during the months of January and February the illuminating power of the gas was very poor, and the sulphur was in excess of the quantity allowed.

According to letters received from the company these violations were owing to derangements in the manufacturing department, and they further state that the defaults could not have been prevented with ordinary care and prudence, but were occasioned by some unavoidable cause.

During the months of March, April, and May, this company were required to make considerable alterations in their machinery, for conducting waste products from the works, and in accomplishing this object, the scrubbers were frequently thrown out of action, which was the cause of the gas containing in quite a number of instances an excess of ammonia, and on a few occasions an excess of sulphur, with some depression, in the illuminating power.

The depressions in the power of the gas, last mentioned, were mostly due to defective retorts.

These works are now in fair condition, and it is not likely that violations will be as frequent during the present year.

On twenty-nine occasions during the year the gas supplied by this company was of less illuminating power than sixteen candles, as follows:

	Candles.
July 9	15.84
July 10	15.89
July 12	15.97
September 22	15.90
November 12	15.72
November 20	14.39
November 22	15.85
November 23	15.30
November 26	15.50
December 7	15.99
December 9	15.99
December 11	15.82
December 20	15.23
December 28	15.81
December 30	15.82
January 10	15.67
January 19	10.55
January 20	12.85
January 24	15.59
January 25	15.76
January 26	14.60
January 31	14.71
March 16	14.68
March 22	15.37
March 26	14.02
March 31	14.94
April 13	15.90
May 14	15.27
May 16	14.56

On twenty-seven occasions the gas supplied by this company contained an excess of ammonia over the 5 grains allowed in each 100 cubic feet:

	Grains.
March 7	5.69
March 8	5.69
March 9	6.51
March 10	6.51
March 11	6.03
March 12	6.03
March 14	5.40
March 15	5.40
April 28	8.58
April 29	8.58
April 30	7.82
May 3	6.40
May 4	6.40
May 5	5.89
May 6	5.89
May 9	6.46
May 10	6.46
May 11	8.26
May 12	8.26
May 13	9.09
May 14	9.09
May 16	7.73
May 17	7.73
May 18	5.35
May 19	5.35
May 20	5.37
May 21	5.37

On thirty-two occasions the gas supplied by this company contained an excess of sulphur over the 20 grains allowed in each 100 cubic feet:

	Grains.
December 29	21.92
December 30	21.92
December 31	23.83
January 3	22.05
January 4	22.05
January 28	29.31
January 29	29.31
January 31	29.86
February 1	29.76
February 2	29.86
February 3	29.86
February 4	29.72
February 5	29.72
February 7	34.11
February 8	34.11
February 21	20.13
February 23	20.08
February 24	20.08
February 28	22.53
March 1	22.53
March 2	20.13
March 3	20.13
March 7	24.11
March 8	24.11
March 9	22.74
March 10	22.74
March 11	23.42
March 12	23.42
May 9	20.68
May 10	20.68
May 16	25.07
May 17	25.07

In every instance that violations have occurred, no matter how slight the infraction, notice has been served on the company violating, in accordance with the requirements of the first section of gas act.

This office has received each month that violations of the standards have been reported therein, communications from the company so defaulting, giving their reasons why they were unable to comply with the requirements of the act. Said communications are on file.

The specific gravity of the gas supplied by the Washington Gas Light Company was: Average specific gravity, .498; air, 1,000; highest specific gravity, .576; lowest specific gravity, .448.

Specific gravity of the gas supplied by the Georgetown Gas Light Company was: Average specific gravity, .497; air, 1,000; highest specific gravity, .511; lowest specific gravity, .475.

GAS BURNERS.

During the past year much time and attention has been bestowed in testing the improved flat-flame burners, manufactured by Messrs. George Bray & Co., of Leeds, England.

In particular was attention given to inspection of Bray's special union slit and special union jet-burners.

Tests were also made with Bray's 30-candle "standard" patent slit union burner, and regulator union jet-burners, and also with the following:

Peeble's patent governor burner, Sugg's double lettered Argand burner, "K K," 42 holes, with 9-inch chimney.

Sugg's letter "D" standard London Argand burner, 24 holes, with 6-inch chimney.

Sugg-Letheby Argand burner, 15 holes, with 7-inch chimney (present standard in this District), and Ellis & Co.'s patent regulator burners, with hexagon pillar.

Description of burner.	Pressure at points of ignition.	Actual consumption of gas per hour.	Illuminating power in candles at rate of actual consumption.	Illuminating power in candles at rate of 5 cubic feet per hour.	Value of one foot of gas in terms of standard candle.
	<i>Inches.</i>	<i>Cubic feet.</i>	<i>Candles.</i>	<i>Candles.</i>	<i>Candles.</i>
Bray's Standard Union Slit (30 candle)	.255	6.90	30.04	21.76	4.35
Bray's Special Union Slit No. 7	.50	4.74	19.20	20.25	4.05
Bray's Special Union Slit No. 6	.50	4.10	16.61	20.25	4.05
Bray's Special Union Slit No. 5	.50	4.24	16.97	20.01	4.
Bray's Special Union Slit No. 4	.60	3.49	12.58	18.02	3.60
Bray's Special Union Jet No. 7	.50	4.84	19.13	19.76	3.95
Bray's Special Union Jet No. 6	.55	4.32	17.10	19.79	3.95
Bray's Special Union Jet No. 5	.60	4.14	15.65	18.90	3.78
Bray's Special Union Jet No. 4	.55	3.38	12.04	17.81	3.56
Bray's Regulator Union Jet No. 7	.50	4.99	17.69	17.72	3.54
Bray's Regulator Union Jet No. 6	.50	5.18	17.63	17.01	3.40
Bray's Regulator Union Jet No. 5	.60	4.37	13.71	15.68	3.13
Bray's Regulator Union Jet No. 4	.60	3.97	11.46	14.43	2.88
Ellis' Regulator Lava Tip (hexagon pillar)	.475	4.90	20.25	20.66	4.13
Peeble's Patent Governor Burner	.70	4.26	17.39	20.41	4.08
Sugg's Argand "K K," 42 holes, 9-inch chimney ..	.20	8.49	34.17	20.12	4.02
Sugg's Argand "D," 24 holes, 6-inch chimney	.175	4.51	16.91	18.74	3.74
Sugg-Letheby Argand, 15 holes, 7-inch chimney ...	.05	4.64	15.79	17.01	3.40

The illuminating power of the gas supplied in this District is determined on the "Bunsen photometer," using the English parliamentary standard Argand burner, having 15 holes and a 7-inch chimney.

This burner was adopted in 1863, for determining the illuminating power of the gas supplied in the city of London, and is generally known as the Sugg-Letheby Argand. It is not, however, the present standard burner in England.

The gas referees in 1870 adopted Sugg's London Argand burner No. 1, having 24 holes and a 6-inch chimney, as a standard, and this burner is at present used by the referees for testing.

By the use of this improved burner the illuminating value of 5 cubic feet of London gas is increased about 1.75 candles.

On examination of the above table of tests, made with various burners, it will be observed that the illuminating power obtained with Bray's special burners Nos. 5, 6, and 7, both union slit and jet form, was high, but with Bray's regulator burners only moderately good.

The result of test with Bray's standard union slit burner was highly satisfactory. This burner is best suited for street illumination, and will yield the maximum candle power obtainable from a cubic foot of gas.

Peeble's governor burner furnished a high candle power. This burner will be found very economical and desirable in localities where excessive pressure prevails.

Sugg's "K K" Argand with central flame, performed well, but the candle power obtained, per cubic foot of gas consumed, was not equal to the candle power obtained with Bray standard union slit burner.

This Argand burner is rated to consume 10.5 cubic feet per hour, and at this stated consumption to furnish an illuminating power equal to 34

candles. In the test made with this burner it only required 8.49 cubic feet per hour to yield 34.17 candles.

This test proves conclusively the superior quality of the gas supplied in this city, compared with that furnished in the city of London, where the above described burner was rated. A saving in the consumption of over 19 per cent., with equal illumination, was the result of test.

Sugg's "D" Argand and the Sugg Letheby Argand were not suited for the quality of the gas experimented with, hence the poor results obtained with those burners.

The Ellis regulator burner maintained its good reputation established last year, and is a fair sample of the best flat-flame burner manufactured in this country.

The special burners manufactured by Bray & Co. compare favorably with any yet inspected by this office; they are well made and no doubt will prove very durable in practical use. They are best adapted for consuming gases of high gravity.

Gas of fine quality will yield a higher candle-power per cubic foot consumed through a well made flat-flame burner, either batwing or fishtail form, than can be obtained with the Argand burners generally in use. This has been satisfactorily demonstrated during the past year in this city. The gas supplied by the Washington Gas Light Company for some months has been enriched with naphtha; the combination of naphtha with coal yields a richer and higher specific gravity gas than we had formerly, and the results obtained with the parliamentary Argand burner having 15 holes, which the law expressly states must be used in determining the illuminating power of the gas supplied in this District, does not represent its true candle-power.

The ordinary batwing and fishtail burners, such as the majority of consumers use, give from 15 to 20 per cent. more light without increased consumption.

INSPECTION OF METERS.

One thousand one hundred and thirty meters were inspected and proved by this office during the fiscal year ending June 30, 1881. With the exception of one meter inspected and proved for the Alexandria Gas Light Company, the above number were inspected and proved for the Washington and Georgetown Gas Light Companies, and for consumers of gas.

The results of inspection were as follows: 46 registered fast against the consumers, average error 3.36 per cent.; 95 registered slow against the companies, average error 8.35 per cent.; 954 registered within the limits allowed by law, namely, 2 per cent. either way, and were sealed, and returned to the companies for service; 33 did not register the gas flowing through them, and 1 was locked so no inspection could be made; 170 of the above-mentioned meters were inspected and proved on complaints; 59 were complained of by consumers of gas; 19 registered fast, average error 3.76 per cent.; 10 registered slow, average error 5.54 per cent., and 30 registered within the limits allowed by law; 111 were complained of by the gas companies; 1 registered fast 3.33 per cent.; 67 registered slow, average error 13.97 per cent.; 13 registered within the limits allowed, and 30 did not register.

All the meters inspected, with the exception of one, were what are known as dry meters, having leather partitions, or diaphragms, for measuring the gas; the one wet meter referred to was inspected and proved for the architect of the Capitol building.

I respectfully renew the recommendation submitted in last annual

report, that the act of Congress regulating gas-works, approved June 23, 1874, be modified, so as to require, when for any purpose whatever the heads of meters that have been inspected, proved, and sealed are removed by the gas companies, meters of this description should be classed as repaired meters, and brought to this office for reinspection before again being placed in service.

The seal of the inspector is the evidence that the meter has been properly tested and proven as required by law.

To admit the right of the companies to remove the head of a sealed meter and rectify whatever is wrong, and return meter to service without reinspection and sealing, would be to render the law practically inoperative, by making uncertain, if not impossible, the protection secured through inspection and sealing, by the office created for that purpose.

I would further recommend that this office be allowed a messenger. A man has been employed to do work of this description during the past six years, and has been paid for said services out of the meter fees, at the rate of \$456.25 per annum. But owing to the reduced number of meters inspected during the last two years the surplus revenue which had accumulated from previous years, when a greater number of meters were tested, is now nearly exhausted, and the indications not being more favorable for the present year, the fees receivable from this source will not be sufficient to maintain a messenger and meet the other necessary expenses, to wit, keeping in repair the apparatus, providing fuel, chemicals, meter seals, and stationery.

S. CALVERT FORD,
Inspector of Gas and Meters.

TABLE A.—*Illuminating power and purity of the gas supplied by the Washington Gas Light Company from June 30, 1880, to June 30, 1881.*

Months of the year.	* Number of observations.	Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Number of occasions that sulphureted hydrogen was present during the year.
		Mean.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	
July	25	17.21	19.20	16.04	1.27	2.38	.34	5.55	6.85	3.42	25
August	26	17.18	19.15	16.00	.72	1.70	.21	7.24	11.98	4.11	14
September ..	27	17.12	18.78	16.00	.86	1.87	.17	6.64	8.56	4.11	17
October	25	16.81	17.55	16.13	.45	1.06	.08	7.46	10.24	5.48	25
November ..	26	16.53	17.34	16.05	.31	.80	.17	8.24	12.67	4.79	26
December ...	25	16.33	17.29	15.85	.35	.85	.12	11.04	14.04	7.87	25
January	24	16.40	17.09	15.14	.97	1.57	.28	8.40	12.33	5.99	24
February ...	26	16.48	17.52	15.99	1.72	3.52	.85	12.45	16.78	7.39	24
March	23	16.91	18.75	15.42	1.32	2.08	.72	14.83	20.89	11.13	23
April	27	16.75	17.85	15.42	1.23	3.23	.80	14.80	26.03	9.13	27
May	25	16.51	17.69	14.80	1.38	2.12	.63	11.51	16.85	7.19	19
June	26	16.50	17.31	15.30	1.06	1.57	.63	8.65	10.96	7.19	26
Totals	305	200.73	.....	.....	11.64	.....	.....	116.81	.....	.....	275

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Sulphureted hydrogen.
* Mean of 305 observations.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Number of times present during the year.
16.72	19.20 (July 22.)	14.80 (May 12.)	.97	3.52 (Jan. 26.)	.08 (Sept. 2)	9.73	26.03 (April 22)	3.42 (July 22.)	275.

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute

REMARKS.—On eleven occasions the illuminating power of the gas was less than sixteen candles: on three occasions sulphur was in excess of the quantity allowed. With the exception of these violations, the quality and purity of the gas supplied by the Washington Gas Light Company during the year has been in accordance with the requirements of the act of Congress regulating gas-works, approved June 23, 1874.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

TABLE B.—*Illuminating power and purity of the gas supplied by the Georgetown Gas Light Company from June 30, 1880, to June 30, 1881.*

Months of the year.	* Number of observations.	Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet			Number of occasions that sulphureted hydrogen was present during the year.
		Mean.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	
July	25	17. 15	18. 87	15. 84	2. 06	2. 55	1. 51	10. 79	13. 15	8. 08	.....
August	24	17. 74	20. 24	16. 06	1. 76	2. 27	1. 42	10. 60	13. 01	8. 49	.....
September ..	27	17. 50	19. 16	15. 90	2. 39	4. 31	1. 24	10. 06	13. 15	8. 49	.....
October	25	18. 37	20. 02	16. 74	1. 04	1. 41	. 85	8. 35	9. 59	6. 23	.....
November	26	17. 12	19. 30	14. 39	1. 52	4. 08	. 62	12. 00	17. 12	6. 57	.....
December ...	24	16. 41	17. 45	15. 23	. 75	1. 36	. 54	12. 71	18. 01	8. 90	.....
January	20	16 19	19. 28	10. 55	. 81	1. 13	. 46	15. 34	23. 83	8. 90	7
February ...	26	16. 67	18. 54	14. 60	1. 81	3. 40	. 96	21. 66	34. 11	10. 96	3
March	23	16. 68	18. 19	14. 68	4. 50	6. 51	2. 80	17. 46	24. 11	7. 80	.....
April	26	16. 64	18. 16	14. 02	2. 45	3. 40	1. 81	13. 33	17. 64	9. 45	2
May	24	16. 75	18. 95	14. 56	6. 68	9. 09	4. 25	16. 76	25. 07	12. 33	.....
June	26	17. 57	20. 81	15. 97	3. 70	5. 83	2. 19	10. 21	15. 34	6. 57	.....
Total ..	296	204. 79	.....	.....	29. 47	.....	.....	159. 27	.....	.....	12

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Sulphu- reted hydro- gen.
* Mean of 296 obser- vations.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Number of times present during the year.
17. 06	20. 81 (June 3.)	10. 55 (Jan. 19.)	2. 45	9. 09 (May 13.)	. 46 (Jan. 17.)	13. 27	34. 11 (Feb. 7.)	6. 23 (Oct. 20.)	12

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.

REMARKS.—On twenty-nine occasions the illuminating power of the gas was less than sixteen candles, On twenty-seven occasions ammonia was in excess of the quantity allowed. On thirty-two occasions sulphur was in excess of the quantity allowed. With the exception of these violations the quality and purity of the gas supplied by the Georgetown Gas Light Company during the year, has been in accordance with the requirements of the act of Congress regulating gas-works, approved June 23, 1874.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

586 REPORT OF COMMISSIONERS OF DISTRICT OF COLUMBIA.

TABLE C.—Meters inspected and proved for the Washington Gas Light Company and for consumers of gas in Washington from June 30, 1880, to June 30, 1881.

	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total.
Whole number of meters tested.....	87	53	48	85	215	40	172	83	76	83	51	41	1,034
New meters for company.....		2		3	173	1	102			1			282
Number fast.....					9		3						12
Per cent. fast.....					3.19		2.77						*2.98
Number slow.....													
Per cent. slow.....													
Number correct.....		2		3	164	1	99			1			270
Repaired meters for company.....	78	42	43	78	34	20	47	67	59	74	36	32	610
Number fast.....							1		1				2
Per cent. fast.....							3.00		2.50				*2.75
Number slow.....								1	1	1			3
Per cent. slow.....								2.66	3.08	8.00			*4.58
Number correct...	78	42	43	78	34	20	46	66	57	73	36	32	605
Consumers' meters, on complaint of consumers.....	1	1	1	1	1	9	7	4	3	3	8	1	40
Number fast.....	1			1	1	2	5		1		2	1	14
Per cent. fast.....	3.91			3.83	2.50	4.79	3.28		4.00		3.66	3.33	*3.66
Number slow.....						2		3		1			6
Per cent. slow.....						3.58		3.11		5.50			*4.06
Number correct.....		1	1			5	2	1	2	2	6		20
Consumers' meters, on complaint of company.....	8	8	4	3	7	10	16	12	14	5	7	8	102
Number fast.....													
Per cent. fast.....													
Number slow.....	6	7	1	3	5	8	10	4	7	2	5	6	64
Per cent. slow.....	14.66	11.59	6.33	17.05	11.39	16.95	16.09	16.45	15.28	16.41	16.80	15.11	*14.50
Number correct...	1	1	1			1	1	1	2	1		1	10
Consumers' meters, on complaint of company, that did not register.....	1		2		2	1	5	7	5	2	2	1	28

*Average.

†One locked.

REMARKS.—During the fiscal year ending June 30, 1881 this office inspected and proved for the Washington Gas Light Company, and for consumers of gas, in Washington, 1,034 meters. Of this number 28 registered fast, average error 3.13 per cent.; 73 registered slow, average error 7.70 per cent.; 905 registered within the limits allowed by law, namely, 2 per cent. either way; 27 did not register the gas flowing through them, and one was locked so gas could not flow through.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

TABLE D.—*Meters inspected and proved for the Georgetown Gas Light Company and for consumers of gas in Georgetown from June 30, 1880, to June 30, 1881.*

	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total.
Whole number of meters tested.				14	16	13	24	9		5	2	12	95
New meters for company.				6								1	7
Number fast													
Per cent. fast													
Number slow													
Per cent. slow													
Number correct				6								1	7
Repaired meters for company.				6	10	8	24					8	56
Number fast					3	2	6					1	12
Per cent. fast					5.52	3.45	3.55					1.91	3.60
Number slow				4	3	3						5	15
Per cent. slow				4.44	8.60	7.66						5.63	*6.58
Number correct				2	4	3	18					2	29
Consumers' meters on complaint of consumers.					1	4		4		5	2	3	19
Number fast						2		1		1		1	5
Per cent. fast						3.08		3.83		3.08		5.50	*3.87
Number slow						1				2		1	4
Per cent. slow						3				5.75		12.33	*7.02
Number correct					1	1		3		2	2	1	10
Consumers' meters on complaint of company.				2	3			4					9
Number fast								1					1
Per cent. fast								3.33					3.33
Number slow				1	1			1					3
Per cent. slow				8.33	11.50			20.50					*13.44
Number correct				1	2								3
Consumers' meters on complaint of company that did not register.					2	1		3					6

*Average.

REMARKS — During the fiscal year ending June 30, 1881, this office inspected and proved for the Georgetown Gas Light Company, and for consumers of gas in Georgetown, 95 meters. Of this number 18 registered fast, average error 3.60 per cent.; 22 registered slow, average error 9.01 per cent.; 49 registered within the limits allowed by law, namely, 2 per cent. either way; and 6 did not register the gas flowing through them.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

TABLE E.—*Number of meters brought to this office, and complained of as incorrect, during the past seven years.*

Date.	Whole number of meters.	Fast meters.		Slow meters.		Correct meters.	Meters that did not register.
		Number.	Per cent.	Number.	Per cent.		
December 1, 1874, to June 30, 1875	100	42	5.50	9	12.84	49	
July 1, 1875, to June 30, 1876	178	43	5.54	51	18.22	84	
July 1, 1876, to June 30, 1877	293	40	4.24	155	21.69	73	25
July 1, 1877, to June 30, 1878	214	36	5.51	97	12.35	63	18
July 1, 1878, to June 30, 1879	292	53	4.51	133	11.97	87	19
July 1, 1879, to June 30, 1880	183	29	5.84	82	13.09	55	17
July 1, 1880, to June 30, 1881	170	20	3.62	77	9.75	43	30
	1,430	263	*4.96	604	*14.27	454	109

*Average.

S. CALVERT FORD,
United States Inspector of Gas and Meters.

TABLE F.—Pressure of the gas supplied by the Washington Gas Light Company, as registered in this office from July 1, 1880, to June 30, 1881.

Month.	Mean pressure expressed in inches.	Maximum pres- sure expressed in inches.	Minimum pres- sure expressed in inches.
1880.			
July	1.027	1.510	.700
August	1.015	3.250	.530
September	1.052	1.265	.675
October	1.025	1.250	.575
November	.982	1.360	.525
December	1.029	1.460	.700
1881.			
January	1.050	1.440	.660
February	.993	1.275	.600
March	.928	1.315	.570
April	.987	1.340	.700
May	.999	1.340	.770
June	1.003	1.270	.600
Twelve months	12.090	.....	.....

Average: mean pressure, 1.007 inches; maximum pressure, 3.250 inches; minimum pressure, .525 inch.
REMARKS.—The pressure on the main at this point is .2 inch less than recorded above.
S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

b.—ESTIMATES FOR TELEGRAPH AND TELEPHONE SERVICE.

TELEGRAPH AND TELEPHONE SERVICE.

One general superintendent	\$1,800 00
Three electricians, at \$1,200 each	3,600 00
Three telephone operators, at \$720 each	2,160 00
Two repair men, at \$720 each	1,440 00
One laborer	400 00
General supplies and repairs of batteries	5,630 00
Purchase of new poles, wire insulators, call boxes, switch boards, annunciat- tors, lightning arresters, push buttons, making new connections and re- pairs	3,000 00
Rent of telephones	700 00
Total	18,730 00

INDEX.

	Page.
REPORT OF THE COMMISSIONERS	3
A.—Report of the Secretary	14
B.—Report of the Treasurer of United States and ex-officio commissioner of sinking fund, &c.....	32
Appendix B 1.—Estimate for amount required for interest and sinking fund, and for clerical services and contingent expenses ..	34
C.—Report of the auditor and comptroller	36
Appendix C 1.—Statement of receipts	38
C 2.—Statement of expenditures	39
C 3.—Estimate for clerical services and contingent expenses ..	45
D.—Report of the collector of taxes	46
Appendix D 1.—Estimate for clerical services and contingent expenses ..	50
E.—Report of the assessor, &c.....	50
Appendix E 1.—Estimate for clerical services and contingent expenses ..	53
F.—Report of the inspector of buildings	54
Appendix F 1.—Estimate for clerical services, contingent expenses, &c ..	58
G.—Report and estimate of the fire commissioners	59
Appendix G 1.—Report of the chief engineer.....	62
G 2.—Inventory of companies	66
G 3.—Report of fires	86
G 4.—Report of superintendent of fire-alarm telegraph	89
H.—Report of the attorney District of Columbia.....	90
Appendix H 1.—Report of special assistant attorney	93
H 2.—Outstanding judgments against the District of Columbia ..	95
H 3.—Estimate for clerical services and contingent expenses ..	95
I.—Report of the coroner	96
Appendix I 1.—Estimate for expenditures	96
I 2.—Tabular statement of deaths, &c.....	96
K.—Report of major of police	99
Appendix K 1.—Table of arrests, &c.....	105
K 2.—Inventory of the District property in the several station houses.....	110
K 3.—Report of sanitary officer	115
K 4.—Report of board of surgeons	118
K 5.—Estimate of expenditures	122
L.—Report and estimates of board of trustees of public schools	123
M.—Report of the commissioner and intendant of the Washington Asylum....	125
Appendix M 1.—Report of the physicians	131
M 2.—Estimate for expenditures	134
N.—Report of Columbia Hospital for Women and Lying-in Asylum	135
Appendix N 1.—Estimate of expenditures	145
O.—Report of the Children's Hospital	145
P.—Report of the Industrial Home School	147
Q.—Report of the sealers of weights and measures	152
R.—Estimate of the engineer in charge of the Washington Aqueduct and the bridges in the District of Columbia.....	153
S.—Report of the trustees of the Reform School.....	153
T.—Report of the Central Free Dispensary	155
U.—Estimate for the Police Court	164
V.—Report of committee on the poor fund	165
W.—Report of the Government Hospital for the Insane	166
X.—Report of the operations of the engineer department, Commissioners' office ..	207
A.—Report of Lieut. R. L. Hoxie	207
B.—Report of Lieut. Francis V. Greene	219
Appendix X 1.—Report of chief clerk	227
X 2.—Report of water registrar	230
X 3.—Report of surveyor	235
X 4.—Report of parking commission	236
X 5.—Report of superintendent gas and lamps	238

	Page.
X.—Report of the operations for the engineer department, &c.—Continued.	
Appendix X 6.—Report of chief special assistant division.....	240
X 7.—Report of chemist and general inspectors of asphalt pavements.....	248
X 8.—Table A.—Sewer and miscellaneous contracts.....	254
X 9.—Table B.—Contracts for improvement and repairs of streets.....	258
X 10.—Table C.—Schedule of streets requiring immediate attention.....	266
X 11.—Table D.—Schedule of work necessary for repair; improvements, and completion of sundry streets and avenues and suburban roads in the District of Columbia January 1, 1882.	267
X 12.—Table E.—Schedule of character and extent of street pavements in Washington and Georgetown July 1, 1881.....	276
X 13.—Table F.—Expenditures for current repairs of streets, avenues, alleys, and sewers.....	294
X 14.—Table G.—Expenditures for current repairs of county roads.....	294
X 15.—Table H.—Appendix 1. Special assessment division. Table showing revised assessments of streets, avenues, and roads.....	296
X 16.—Table I.—Appendix 2. Special assessment division. Statement showing amount charged United States in revision of assessments.....	303
X 17.—Table K.—Appendix 3. Special assessment division. Statement of assessments for the improvement of alleys...	310
X 18.—Table L.—Appendix 4. Special assessment division. Statement of lien certificates held by First National Bank, New York, <i>et al.</i> , as affected by revision of assessments...	312
X 19.—Table M.—Appendix 5. Special assessment division. Statement of amounts charged in the revision of assessments against the several street railroad companies.....	333
X 20.—Table N.—Appendix 6. Special assessment division. Statement of assessments for special improvements on property held by educational, charitable, and religious institutions, &c.....	339
X 21.—Table O.—Appendix 7. Special assessment division. Statement of drawback certificates revised for account of sinking fund.....	341
X 22.—Table P.—Appendix 8. Special assessment division. Statement of collections now awaiting demand of owners of lien certificates issued by the board of public works.....	344
X 23.—Table Q.—Appendix 9. Special assessment division. Statement of payments made on account of lien certificates issued by board public works and not held by sinking-fund commissioner.....	344
Y.—Report of the superintendent of property.....	349
Z.—Report of the health officer.....	358
a.—Estimate of inspector of gas and meters.....	577
b.—Estimate of telegraph and telephone service.....	598

3 1172 01956 9854



**PUBLIC LIBRARY
DISTRICT OF COLUMBIA**

MAY

1968